

INDEX

INDIVIDUAL

FAMILY

EMPLOYEE

MADE IN U.S.A.
G. E. CRONIN
Crusell
NO. 75 AMH

INDEX

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FORWARD

This notebook is prepared to provide you, the supervisor, with reliable information concerning the Company plans and policies as they relate to the Hercules Plant. The data are provided for your personal information as well as a source of reference to enable you to answer the questions of those whom you supervise.

Your company, as well as this plant, is a large and growing concern and accurate information is imperative to avoid misunderstanding and distrust. This notebook will be kept keyed to current activities by additions and changes as policy dictates. You, the supervisor, are the direct contact between Plant Management and the operating crews. You must be capable, fair, and understanding to enable you to do your job as it should be done. Proper performance of your job will help to attain the goal of complete harmony with a natural consequence of effective and agreeable plant operation.

This Manual is issued to individuals for their personal use on the plant. It is to be surrendered to the Personnel Department upon transfer. There can be no exceptions to this rule as the plans and policies are set forth as practiced on the Hercules Plant and in many cases would not apply to any other plant.

FORWARD

This notebook is prepared to provide you, the supervisor, with reliable information concerning the Company's plans and policies on that subject to the maximum extent. The data are provided for your personal information as well as a source of reference to enable you to answer the questions of those whom you supervise.

Your company, as well as this plant, is a large and growing concern and accurate information is imperative to avoid misunderstanding and distrust. This notebook will be kept current to current activities of activities and changes in policy. For the supervisor, who has direct contact with the plant management and the operating crew, this notebook is a guide and a source of information to enable you to do your job. It should be kept in your pocket for reference at all times. It is intended to help to attain the goal of complete harmony with a minimum of expense and maximum plant operation.

This manual is issued to individuals for their personal use on the plant. It is to be considered as the personal property of the individual. There can be no exceptions to this rule. The plant and policies are not to be discussed or the Company's plans and in any case would not apply to any other plant.

SUPERVISOR'S "LAMENT"

If he is pleasant, he is too familiar,
If he is sober-faced, he is a sourpuss,
If he is young, he doesn't know anything,
If he is old, he is an old stiff,
If he belongs to a lodge, the members expect favors,
If he goes to church, he is a hypocrite,
If he doesn't, he is a heathen,
If he drinks, he is an old souse,
If he talks to everybody, he is a gossip,
If he doesn't, he is stuck up,
If he insists that the rules of the shop be kept, he is too
particular.
If he doesn't, he is too careless,
If he looks around, he's snooping,
If he doesn't, he's unobservant,
If he tries to settle all complaints, he has to have the wisdom
of Solomon,
If he worries about them, he'll soon be crazy,
Are there any good foremen?
Yes, plenty of them and they're not all in cemeteries.
Anyone still want to be a supervisor?

SECRET

1. The first part of the document discusses the general situation of the country and the progress of the revolution. It mentions the importance of the people's participation in the revolutionary process and the need for a united front.

2. The second part of the document discusses the specific measures taken by the government to implement the revolutionary program. It mentions the establishment of the revolutionary committee and the implementation of the land reform.

3. The third part of the document discusses the results of the revolutionary process and the achievements of the government. It mentions the increase in production and the improvement of the people's living standards.

4. The fourth part of the document discusses the future prospects of the country and the tasks ahead. It mentions the need for further reforms and the importance of maintaining the revolutionary spirit.

INDIVIDUAL

INDIVIDUAL

THE HERCULES EMPLOYEE AS AN INDIVIDUAL

Most employees want to know that will happen to their pay checks if they are off for any reason. In this section of the Procedure Manual we will discuss the company benefit and insurance plans that come into effect when an employee is off work.

When he is off due to occupational illness or injury he will be covered by Workmen's Compensation and generally by Voluntary Compensation.

When he is off due to non-occupational illness or injury he may be covered by Group Accident and Sickness Insurance, California Unemployment Compensation Disability (UCD), Disability Wage Plan or Group Hospital plans.

The following items are discussed in this section:

DEFINITION OF TERMS	Pg. 2
"Creditable Continuous Service"	
"Full Regular Rate of Pay"	
BENEFIT PLAN - TABLE SHOWING COMPARISON	Pg. 3 - 4
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HERCULES CLUB	Pg. 13

It is the policy of the Department of Defense to ensure that all personnel who have access to classified information are properly screened and monitored. This includes a thorough background check and a review of the individual's financial and personal history. The purpose of this screening is to identify any potential security risks and to ensure that only individuals who are trustworthy and loyal to the United States are granted access to sensitive information.

The following information is being provided for your information. It is important that you understand the nature and scope of the information being disclosed and the potential risks associated with its release. The information is being provided in confidence and should be handled accordingly.

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DEFINITION OF TERMS -
"CREDITABLE CONTINUOUS SERVICE"
and
"FULL REGULAR RATE OF PAY"

Creditable Continuous Service: The amount of Creditable Continuous Service determines when an employe is eligible to participate in many of the Company's benefit plans.

1. Credit for a full month's service is given at the end of the month in which an employe has had any earnings. The earnings may be for work actually performed, for temporary disability compensation, or for vacation pay.
2. Credit for a year of service is given when an employe has credit for earnings in 12 calendar months.

Since an employe does not receive credit for a month's service until the calendar month is completed, he will not be eligible for benefits until the last calendar month of the qualifying period has ended.

Full Regular Rate of Pay: For many of the Company benefit plans it is necessary to determine the full regular rate of pay. This is determined by multiplying the book rate per hour by 40. The book rate does not include the amount of detail or shift differentials. Shift differentials are paid only because the hours of work deprive the employe of a normal living schedule and obviously are not paid when the employe is off work.

CONFIDENTIAL
EXCLUDED FROM AUTOMATIC
DOWNGRADING AND
DECLASSIFICATION

CONFIDENTIAL
EXCLUDED FROM AUTOMATIC
DOWNGRADING AND
DECLASSIFICATION

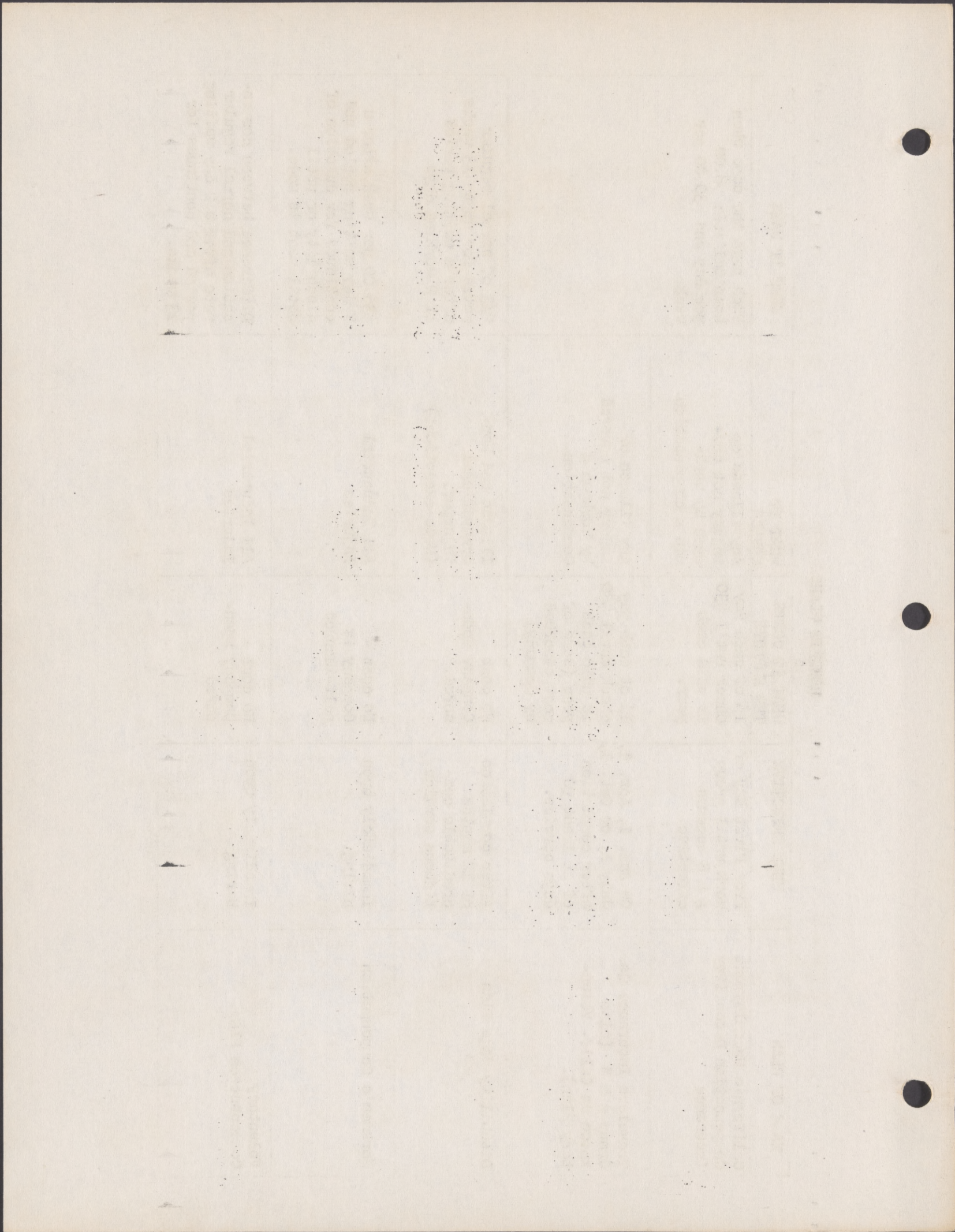
1. The first of the three major components of the system is the data base. This is a collection of information which is used to determine the status of the system. It is updated by the system and is used to determine the status of the system.
2. The second of the three major components is the control system. This is a system which is used to control the operation of the system. It is updated by the system and is used to determine the status of the system.
3. The third of the three major components is the output system. This is a system which is used to output the results of the system. It is updated by the system and is used to determine the status of the system.

The system is designed to be used in a variety of ways. It can be used to determine the status of the system, to control the operation of the system, and to output the results of the system. It is designed to be used in a variety of ways.

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BENEFIT PLANS

NAME OF PLAN	WHEN EFFECTIVE	WHAT IT COSTS THE EMPLOYEE	WHAT IT COVERS	WHAT IT PAYS
California Unemployment Compensation Disability Insurance	From First Day of Work until group A & S becomes effective.	1% of each Pay Check until \$30 is paid each year.	Any illness or injury not covered by workmen's compensation.	Each pays the same when hospitalized: \$8.00 per day and \$30.00 per week.
Travelers Insurance Co. Group A & S (also known as Calif. Voluntary Plan).	On Jan. 1, Apr. 1, July 1, or Oct. 1, after completion of at least 90 days service.	1% of each pay check until \$30 is paid each year (some of cost absorbed by Company)	Any illness or injury not covered by Workmen's Compensation.	
Disability Wage Plan	After completion of 12 months creditable continuous service.	No cost Company sponsored.	Illness and Non-occupational injuries. (Note exceptions)	2/3 of normal regular rates for up to 13 weeks after a waiting period of 2 working days.
Workmen's Compensation	Immediately upon hiring.	No cost - Company is self-insured	All Industrial Injuries	\$35.00 per week after a 7 day waiting period and continues for duration of disability or until settlement is made.
Voluntary Compensation Plan.	Immediately upon Hiring	No cost - Company sponsored	All Industrial Injuries	Difference between compensation and normal regular rate after a 2 day waiting period and continues for 13 weeks.



GROUP ACCIDENT AND SICKNESS INSURANCE
FOR CALIFORNIA EMPLOYEES
(CALIFORNIA VOLUNTARY PLAN)

Purpose: When an employee is off work due to illness or injury not covered by workman's compensation, he will receive Disability Payments either through the California Unemployment Compensation Plan (UCD) or thru the Group Accident and Sickness Insurance (Also called the Voluntary Plan) as explained below.

Definition of Plan: The California State law provides that employees must be insured against disability either by the UCD plan or by private insurance which is at least as good as the State plan. Hercules Plant employees are insured through the Travelers Insurance Company by a Group Accident and Sickness insurance.

Comparison with State Plan: Benefits of the UCD plan and the Group A & S insurance are the same except that maximum payments under UCD are for 26 weeks per year while Group A. & S. is 26 weeks per disability. The cost of either plan is one per cent of the first \$3000 of annual wages or \$30 per year. The Company pays part of the premium of the private insurance.

Length of Employment Required: A new employee becomes eligible for the Group A. & S. Insurance on January 1, April 1, July 1, or October 1 after he has completed three months service. The State plan is in effect from the time of hiring until the Group A. & S. insurance becomes effective.

Waiting Period and Duration of Benefits: The weekly payment of \$30 is payable after a waiting period of seven calendar days and will continue for a maximum of 26 weeks. If the employee is hospitalized there is no waiting period for the weekly benefit and in addition there are hospital benefits of \$8.00 per day. This latter benefit continues up to 12 days.

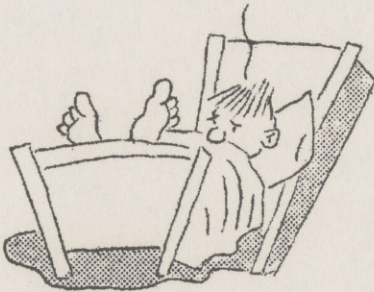
Miscellaneous Information: No medical examination is required to participate in the plan. There is no age limit. Insurance is terminated with the end of employment.

Transfers: Employees who transfer to California become eligible for enrollment in the Group A. & S. insurance on the date of transfer if they were enrolled in the Group A. & S. plan at the location from which they were transferred. The insurance is terminated for employees transferring out of California and is converted to policies applicable to the location of transfer.

DISABILITY WAGE PLAN

Purpose: When an employee is off work due to non-occupational illness or injury he is paid two thirds of his normal wages during the disability, if he qualifies.

Length of Employment Required: An employee becomes eligible for benefits under this plan when he has completed 12 months of creditable continuous service. The Company provides this income protection at no cost to the employee.



Note: If an employee becomes disabled in the twelfth month of service and disability continues into the 13th month he will become eligible for benefits at the start of the 13th month.

Method of Application for Benefits: The employee must bring a certificate of disability from his doctor to the payroll department. (This certificate is generally also used for payment of benefits under the Group A. & S. Plan).

Waiting Period and Duration of Benefits: After a waiting period of two working days eligible employees are paid disability wages of two thirds of full regular rates for a period of up to 13 weeks. If an employee apparently recovers and returns to work and then suffers a relapse within six calendar days, there is no further waiting period and he is entitled to the remainder of the 13 week disability pay. If the relapse occurs after six calendar days it may be considered a new disability.

Disabilities Covered: All disabilities are covered except those intentionally self-inflicted or resulting from use of drugs or intoxicants or other willful acts contrary to law and order.

Medical Examination: If the employee has been off work more than one week he must be cleared by the company doctor before he returns to work. In case there is any question as to the employee's fitness to return to work he should be referred to the Company doctor.

Note: These payments are made by the Company and are in addition to any insurance benefits that the employee may get.

WORKMAN'S COMPENSATION
AND
PERSONAL INJURIES



Industrial Injury: An industrial injury is an injury or illness arising from work done for the employer. State Compensation laws provide a schedule for compulsory payments for Industrial Injuries. Employers may elect to provide such payments through one of the following types of Insurance: By using the State Compensation Insurance Fund, a private Insurance Company or by complying with certain special provisions making them eligible to become a self-insurer. Hercules, in this State is a self-insurer.

How Compensation is Paid: Compensation paid during the recovery from an industrial injury is based upon the worker's pay, the maximum weekly benefit being \$35.00. Under present wage rates all Hercules full-time employes would receive the maximum. Employes will receive additional payments under the Voluntary Compensation Plan.

The \$35.00 per week payments will continue as long as the employee is temporarily totally disabled or until a settlement is made in those cases where the employee has a permanent disability or where death results. In such cases the State Industrial Accident Commission fixes the amount of settlement.

Types of Injuries: All work injuries are listed as lost time, minor or first aid. Lost Time Injuries result in the worker being unable to perform a useful job on some day following his injury. (There are some exceptions to this in tabulations as reported to the National Safety Council). Minor Injuries require the services of a doctor and do not require a full day off work during treatment. They do not result in a permanent disability. First Aid Cases are injuries of a very minor nature which heal without complication.

VOLUNTARY COMPENSATION PLAN

Purpose: All employes are entitled to Workmen's Compensation in accordance with State Compensation laws. In addition Hercules pays the difference between this amount and full regular wages.

Length of Employment Required: An employe is covered by this plan as soon as he accepts employment with the Company and at no cost to him.

Waiting Period and Duration of Benefits: Voluntary compensation begins after a waiting period of two working days and will continue up to 13 weeks.

VACATION PLAN

Company Plan: The Company vacation plan provides a paid vacation for payroll employees according to the following schedule:

For a creditable continuous service of:

1 year through 14 years
15 years through 34 years
35 years and more

Length of vacation:

2 calendar weeks
3 calendar weeks
4 calendar weeks

In addition, one week of vacation is granted to each employee during the years of his 25th and 30th service anniversaries.

First vacation: A new employee must have completed 12 months of creditable continuous service before he is entitled to take his first vacation.

Vacation Pay: The amount of vacation pay allowed is determined by multiplying the regular hourly rate of pay by the number of hours that the employee would normally be expected to work.

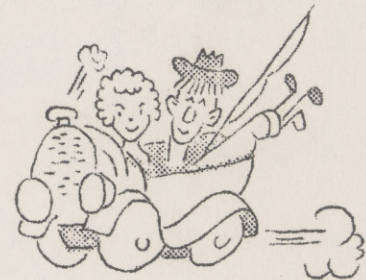
Holidays During Vacation: If a recognized company holiday occurs during an employee's vacation on a day which he would have been scheduled to work then such a holiday does not constitute a day of his vacation. This additional day of vacation should normally be taken just prior to or following the regular vacation week.

Accrued Vacation: If an employee is separated from the company service (or upon entering military service) he is entitled to accrued vacation provided he has completed at least one year of creditable continuous service. If separation occurs in the year of the 25th or 30th anniversary the full extra week of vacation will be allowed.

Scheduling of Vacations:

All vacations must be scheduled by May 1 of any year and generally should be completed by December 1. However, in exceptional cases they may be taken in December but must be completed by December 31st.

The scheduling of vacations is the responsibility of the Department Supervisors and shall be so arranged that production schedules shall be maintained.



GRANTING OF TIME OFF FROM WORK - ATTENDANCE

General Policy: It is the general policy of this plant to grant time off for legitimate reasons if the employee makes arrangements in advance. However, when an employee is to be off because he is sick or when some emergency prevents him from reporting to work, he should call in to advise his supervisor of the circumstances. If he does not call in within one half hour of the time that he is normally expected to report to work, an unexcused absence will be recorded for that day. A high absentee rate is undesirable both from the individual and company viewpoint. Every effort should be made to keep unexcused absences at a minimum/

Jury Duty: When an employee is required to perform jury duty, he will receive full regular rate of pay for the time that it is necessary for him to be away from the job during his regularly scheduled hours of work. He will be expected to report for work daily before and after jury duty where reasonably practicable to do so. A maximum of five days pay will be granted an employee for jury duty in any one year.

Funerals: An employee who has completed one year of creditable continuous service may be granted time off from work to attend the funeral of a member of his immediate family. An immediate family member includes: father, mother, husband, wife, son, daughter, brother, or sister. He will be allowed up to three days off with pay during the period of time between the death and the funeral. No more than three days pay will be allowed should more than one death occur in the family during any three day period. No pay will be allowed if the employee does not attend the funeral. The hours paid, but not worked, will not be used in computing overtime.

Leaves of Absence: Leaves of absence are granted to employees to keep them on the employment roll without earnings to maintain their continuity of service. Any calendar month in which an employee has no earnings will not count in calculating service credits.

Note: A leave of absence will not be granted to permit an employee to try other employment. By accepting another job while still on our employment rolls, an employee would void some provisions of our Group Insurance policies and of the Unemployment Insurance laws.

Method of Obtaining Leaves: Any request for leave of absence should be immediately referred to the Plant Manager. In most cases it will be necessary for the Plant Manager to request a formal leave of absence from the manager of the Explosives Department.

MILITARY LEAVE

General Policy: Any regular employe will be granted military leave to enter the armed forces. He will retain his plant seniority and service rating while in the armed forces.

Extra Compensation: If an employe has one year or more of creditable continuous service, he will be entitled to extra compensation during the first three months in the service. This will amount to his normal regular wages less his government pay. (Government pay will not include rental, subsistence and dependent allowance). The extra compensation benefits are not subject to Social Security taxes but are considered income and so are subject to Federal and State tax.

Rehiring of Veterans: If an employe returns to work within 90 days of discharge from the service, his time in the service will count toward creditable continuous service. He will be rehired in a position of like seniority status and pay unless the employers circumstances have so changed as to make it impossible or unreasonable to employ him so. To qualify for rehiring a veteran must:

1. Have been in a position when he left the Company that was other than temporary.
2. Receive a certificate of satisfactory completion of service.
3. Still be qualified to perform the duties of such position.



Reserve Training: Employees who are in a reserve unit will be expected to attend reserve training encampments during their regular vacations. However, if operating conditions permit, an employe may be granted a leave of absence without pay for up to one month for such purpose.

SECTION 10

10.1.1. The purpose of this section is to provide a detailed description of the system architecture and the components that make up the system.

10.1.2. The system architecture is based on a modular design, which allows for the easy addition or removal of components without affecting the overall system functionality.

10.1.3. The system architecture is designed to be scalable, allowing for the system to grow as the user requirements change.

10.1.4. The system architecture is designed to be secure, protecting the data and the system from unauthorized access.

10.1.5. The system architecture is designed to be reliable, ensuring that the system is available when needed.

10.1.6. The system architecture is designed to be flexible, allowing for the system to adapt to changing requirements.

10.1.7. The system architecture is designed to be easy to use, ensuring that the system is accessible to all users.

PENSIONS

General Policy: The Pension Plan of the Company provides for payment of monthly pensions to eligible retired employees. It is completely controlled by the Board of Directors of the Company and provides for disability and retirement pensions.

Retirement Pensions: All male employees aged 65 or over who have 15 years of creditable continuous service are eligible for pensions. Male employees between 60 and 64 years of age who have 25 years of creditable continuous service are eligible for retirement pensions at reduced rates.

Disability Pensions: Employees with 15 years creditable continuous service may be eligible for disability pensions if they are permanently incapacitated for ordinary work.

Amount of Pension: To determine the amount of retirement pension, the average monthly earning for the 10 years immediately preceding retirement is multiplied by one percent for each year of creditable continuous service. (Credit for service before 1931 is at the rate of one and one half percent for each year of service).



Company Plan: The Company pension plan has been in effect since 1913. When Federal Old Age Benefits (FOAB) went into effect in 1933 the Company was required to contribute an amount equal to that contributed by the employee. There was no change in the Company pension plan even though this resulted in a great increase in cost. The Pension Plan provides for deduction from the pension of the full amount of Social Security payments received by a pensioner but in actual practice the Company deducts only one half of FOAB payments.

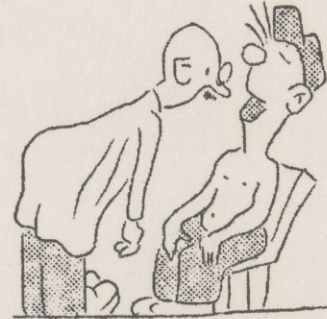
THE HISTORY OF

The history of the United States is a story of the growth of a great nation from a small colony of English settlers. The first settlers came to the New World in search of a better life, and they found it in the land of the free. They built a nation of men and women who were free to live and work as they saw fit. They fought for their rights and won them. They built a great empire, and they are still building it today. The history of the United States is a story of the triumph of the human spirit over all odds.

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PHYSICAL EXAMINATIONS

Pre-employment Examination: These examinations are required of all prospective employees. During examination, the examining physician attempts to discover any abnormal conditions that would make it unwise for the employee to do the work expected of him. Further, an endeavor is made to protect our present employees against any infections or contagious disease which might be brought to the plant by the new employee. In the interest of the individual who is coming to work with us, we also attempt to find and describe to him health conditions which may lead to future disability. The pre-employment examination, then, is not primarily a bar to employment.



Periodic Examinations: These examinations are given to all employees at least once a year. This general physical examination gives a continuing health history which may make possible early discovery or development of some illness or decline in health. It cannot discover every possible ailment an employee may have at any given time, but with the employee's cooperation it can be an aid to better health. It then is intended to make it convenient for each employee at least once a year to meet and talk to a physician so that if he has health problems, he may ask for advice. For this purpose employees are urged to make use of the plant doctor whenever needed.

Pharmacological Effect of Some Chemicals: Because of the known pharmacological effect of nitroglycerine and ethylene glycol dinitrate, special heart examinations are given employees who work where they may contact these chemicals either by inhalation or skin contamination. The effects of these chemicals have been studied extensively and the majority of the men never show undesirable effects from such exposure. Occasionally however, a worker may develop an unfavorable body reaction to these materials, which necessitates the removal of the worker from exposure to nitroglycerine and ethylene glycol dinitrate. Such exceptional reactions are of a temporary nature and do not lead to any permanent harm if the worker is removed to another place of work. Therefore, the purpose of the special examinations at more frequent intervals is an attempt to discover and better place those employees who may develop questionable or abnormal circulatory conditions.

CREDIT UNION

The Hercules Employees Federal Credit Union is a cooperative organization made up of employees of this plant and their families. It serves as a bank wherein members may make savings with convenience and safety. This money is then available to loan to members for useful purposes at reasonable rates of interest.

The Credit Union is operated, supervised, examined and controlled under rules and regulations of the United States Government and is in no way sponsored or controlled by the Company with the exception that permission has been granted to make payroll deductions.

The officers consist of five directors, three credit committee members and three supervisory committee members. Monthly meetings are held by the directors and an annual meeting of all members is held in January of each year at which time the officers are elected.



Since its organization in 1939 more than \$500,000 has been loaned to members. Loans charged off as uncollectable amount to \$572 or about one tenth of one percent. As of August 1, 1952 loans outstanding are \$67,000 and savings amount to \$64,000 and reserve for bad loans was \$3,283. Profits

in 1951 were \$4,219.30. Annual dividends are paid each January on the profit for preceding year. The dividend for the past few years has ranged between two percent and five percent per year. Present officers are John Sassone, Mary Lucid, John Santaella, Frank Maderos, Jimmy Nicholls, J. O. Lowe, Jack Fraser, Jack Hansen, Ray Lindholm, Elmore Jordan, and Marvin Higley.

HERCULES CLUB

The Hercules Club was formed to provide recreation facilities for the employees of the Company. Employees may join by filling out a membership card available from the secretary. Membership dues of \$1.00 per month are paid through payroll deduction or through the collection account.

The governing body of the Club is the Executive Committee and is composed of eight members. The Works Manager of the plant is automatically President and the remaining members of the Executive Committee are elected at the annual election meeting.

Membership entitles an employee to use the pool tables and bowling alleys and to make purchases "on the cuff" at the bar where ice cream, candy, cigarettes and drinks may be purchased.

Stag and family picnics, dinners, and card parties make up the program of the club.

FAMILY

FAMILY

THE EMPLOYEE AS A FAMILY MAN

Not many conditions impose more responsibilities upon a man or an employee than those which change that worker and individual into a family man.

These responsibilities become heaviest in time of emergency - in time of sickness when the family man begins to think of his family without the usual paycheck and toward the time when the head of the family will not be there to provide that paycheck.

To achieve security in such instances the Company cooperates with him to **help** provide hospital care and insurance plans. These will be discussed in this section.

HOSPITAL INSURANCE PLANS

Pg. 21

Blue Cross Plan

Travelers Group Hospital Plan

Permanente Health Plan

GROUP LIFE INSURANCE PLAN

Pg. 25

SALARY ALLOTMENT INSURANCE

Pg. 28

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HOSPITAL INSURANCE PLANS



When serious illness or injury occurs, a family may find it difficult to meet its obligations. In order to help pay the hospital and doctor expenses at such times the Company encourages all employees to participate in one of the Company recognized hospital plans. At present the Company recognizes the following plans: Blue Cross (Hospital Service of California), Permanente Health Plan, and Travelers Hospital Plan.

Who Pays: The Company pays the employee's cost for the Blue Cross Plan and allows a certain amount toward the employee's cost of the other two plans. On all three plans the employee may enroll members of his family by arranging payment for them through payroll deduction.

Cost for Salaried Employees: The Blue Cross is the only plan to which the Company contributes for salaried employees. These employees may belong to either of the other plans if they desire by arranging for payments through the collection account. Payments for family members are handled in a similar manner.

BLUE CROSS PLAN

The Blue Cross program available to Hercules Company employees is a part of the nation wide Blue Cross Plan which covers over 41 million Americans. Blue Cross is a non-profit organization, organized for the sole purpose of providing hospital, surgical, and medical benefits at a minimum of cost. This is accomplished by arrangements with hospitals whereby the Blue Cross Identification Card furnished each subscriber entitles him to care in the hospital of his choice.

Payments: Blue Cross pays the hospital direct for the services rendered the subscriber. Surgical benefits are provided to help the subscriber pay his doctor's bill for surgery performed either in the hospital or in the doctor's office. When the person covered is a registered bed patient and entitled to hospital benefits, \$3.00 per day is paid to help pay doctor's bills for a non-surgical case. This benefit is in addition to the hospital bill and covers such ailments as heart condition, pneumonia, polio, etc., requiring hospitalization. You may continue your coverage when you leave your place of employment. Blue Cross operates on a service basis, paying the hospital whatever the charges are for the listed services, rather than an allowance or a given number of dollars per day, thus meeting closer the actual cost of hospitalization.

Choice of Doctor: The employee has a complete freedom of choice of doctor and the world wide acceptance of the Blue Cross will provide protection wherever the subscriber may travel.

Two Plans: There are two plans in effect at Hercules, one for the salaried employees and one for the hourly employees. Since there is 100% participation salaried employees' coverage includes a higher surgical schedule and also covers all pre-existing conditions for surgical benefits. As a result the rate is slightly higher.

The Identification Card: All the Blue Cross subscribers receive a contract which is approved by the State Insurance Department, thus guaranteeing the benefits shown. All members receive an Identification card which should be carried at all times for it is the identification enabling them to obtain entry to a contracting hospital without the necessity of making a deposit before admission.

TRAVELERS GROUP HOSPITAL PLAN

This is a Company participation plan for employees who wish another form of protection for themselves and their families against excessive expense during times of sickness or non-occupational accidents.

Eligibility: Any employee at Hercules is eligible to enroll on the first day of the calendar quarter following the completion of three months

THE FIRST PART OF THE REPORT IS A SUMMARY OF THE WORK DONE DURING THE YEAR. IT IS A CONCISE STATEMENT OF THE FACTS AND FIGURES, AND IS INTENDED TO GIVE A GENERAL IDEA OF THE PROGRESS MADE. THE SECOND PART IS A MORE DETAILED ACCOUNT OF THE WORK, AND IS INTENDED TO GIVE A CLEARER VIEW OF THE METHODS EMPLOYED AND THE RESULTS OBTAINED.

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of service and will be covered on that day providing he is at work. If not at work on that day, coverage will start on the date of return to active employment. Premiums will be charged from the date insurance becomes effective. The coverage terminates at the time the employee leaves the Company.

Medical Examination: No medical examination will be required if the employee signs an enrollment card within one month of the date he becomes eligible. It is therefore most important that his signed card be returned promptly, in order to avoid the customary medical examination of the Travelers Insurance Company at the employee's expense and the possible refusal of his request for the insurance.

Schedule of Payment: Benefits below apply during any period of non-occupational disability when the employee is in an accepted hospital at the recommendation of a physician. Such benefits continue for a maximum of 70 days. They provide an amount equal to the hospital charges for medical care and treatment other than board and room, nursing care, attendance by a physician and ambulance service, up to a maximum of 15 times the daily benefit. These provisions extend to dependents who include the wife of the employee and unmarried children over three months but under 18 years of age.

Benefits to Employees:

- \$8.00 per day while in a hospital.
- Up to \$120 misc. hospital charges.
- Up to \$225 surgical expense
- Up to \$3.00 per office visit and
- \$4.50 for doctor's care at the hospital or at home.

Benefits to Dependents:

- Up to \$6.00 hospital daily benefits
- Up to \$90.00 misc. hospital charges.
- Up to \$150.00 surgical expense.
- \$3.00 per hospital doctor's service.

General Features: Medical features included in the plan are surgeon's expenses (including provision for pregnancy), doctor's fees for medical treatment at the office or the hospital, laboratory and X-ray benefits, and hospital care for dependents.

TO THE HONORABLE SECRETARY OF THE
NAVY
WASHINGTON, D. C.
JAN 10 1918

RECEIVED
JAN 10 1918
NAVY DEPARTMENT
WASHINGTON, D. C.

TO THE HONORABLE SECRETARY OF THE
NAVY
WASHINGTON, D. C.
JAN 10 1918

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WASHINGTON, D. C.
JAN 10 1918

PERMANENTE HEALTH PLAN

Any employee is eligible for membership in the Permanente Health Plan.

Some Features: Some features of the plan include limited provisions for pre-existing conditions, conversion from group to single member status if desired, conditions covered by Workmen's Compensation are excluded.

The Subscriber is Entitled to: Hospital care with its usual services for a period of 111 days with ambulance service within 30 miles; doctor's care including operations and consultations without charge while hospitalized (a fee of \$1.00 being charged for office visitations and \$2.00 for a home call); free drugs during hospital care; X-rays and laboratory work at no charge; full maternity care at a charge of \$60.00 if confinement occurs after ten month's membership and \$140.00 if before ten month's; all services connected with removal of tonsils and adenoids at a total charge of \$15.00.

Emergency care is provided for accidental injury outside of the service area. When a member is accidentally injured at a point more than 30 miles from the nearest authorized medical office or hospital, up to \$250.00 will be allowed for services before medical conditions permit travel to the nearest Health Plan hospital.

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY
JANUARY 1954
MEMORANDUM FOR THE RECORD
SUBJECT: [Illegible]
[The following text is extremely faint and largely illegible due to fading and bleed-through from the reverse side of the page. It appears to be a memorandum detailing a chemical experiment or analysis.]

GROUP LIFE INSURANCE PLAN

Purpose: To provide adequate Life Insurance protection for all eligible Hercules Employees at a minimum cost to the employee.



Eligible Employees: Any regular full-time Hercules employee will become eligible for Group Life Insurance when he has been on the payroll continuously for 90 days, if he is not off work on that day.

Enrollment: An employee must sign up for insurance within one month of the date he becomes eligible. Otherwise it will be necessary for him to submit to the customary medical examination of the Insurance Company at his own expense to determine if he is an acceptable risk by the Insurance Company.

This insurance will become effective from the date of approval by the Insurance Company provided the employee is actively at work or if not, on the next day on which he is actively at work.

Amount of Insurance: The Group Life Insurance Plan provides life insurance on two bases:

1. Contributory Insurance, which is equal in amount to the annual salary or wage of the employee. The employee pays part of the premium on this portion of the insurance and the company pays the balance.
2. Free insurance, which is equal in amount to the contributory insurance. The Company pays the entire premium on this portion of the insurance.

If the annual salary or wage is not a multiple of \$100 then the next higher multiple of \$100 is used as the basis for determining the amount of insurance in effect. The annual salary is 12 times the monthly salary or 2080 times the full regular hourly rate of pay.

Cost to Employee: The employee pays six cents per month toward each \$100 of contributory insurance with the Company paying the balance. The Company also pays the entire cost of the free insurance.

Change in Amount of Insurance: Since the amount of contributing insurance is equal to the annual salary or wage, automatic adjustments are made for increases or decreases in annual salary or wage each April 1 and October 1. The only notice the employee receives of such change will be a change in the amount of deductions from his salary or wage.

Pensioner Pensioned Prior to Age 65: If the pensioner continues to contribute toward the contributory insurance then both the free and contributory insurance will stay in effect to age 65 in an amount equal to that in effect at the time of pension. In the event such an

employee qualifies for Permanent Total Disability Benefits under the contributory insurance his acceptance of such benefits will have no effect on his free insurance.

Insurance at Age 65: At the age of 65 the employee's contributory insurance and free insurance will be combined and all premiums will be paid by the Company. His total insurance in effect the day before he reaches 65 will be reduced by 20% on his 65th birthday. A similar reduction of 20% of the original total insurance will be made on each birth date anniversary until the amount of combined insurance of the employee or pensioner is equal to the greatest of the following:

1. The amount of annual pension he is receiving.
2. The amount of annual pension an active employee might be granted if he were pensioned on the anniversary in question or,
3. \$2,000.

For pensioners retired on disability prior to age 60 some other provisions may apply but, in any case, will be no less favorable to the pensioner.

Total Disability Benefits: If the employee desires disability benefits and qualifies under the contributory insurance policy provisions for Permanent Total Disability Benefits, the amount of his contributory insurance will be paid to him in monthly installments. The free insurance does not provide for these Permanent Total Disability Benefits.

Change of Beneficiary: The beneficiary can be changed at any time by filing a written request with the Company on the Insurance Company's forms.

Termination of Insurance: The insurance will terminate when employment is terminated prior to pension or when prior to age 65 the insured stops paying for it. In either case both free and contributory insurance will terminate for that individual.

Cash Value of Insurance: Since this is term insurance, it does not become "paid up" at any future date and does not have a cash surrender value or loan value.

Conversions: In the event of termination of insurance due to termination of employment the Group Life Policy permits the insured to convert all or any part of his Group Life Insurance (both free and contributory insurance) to an individual policy. This is without physical examination and can be in any of the forms customarily used by the Travelers Insurance Company, except term insurance. Application must be made within 31 days after termination of employment and payment made of the premium applicable to the class of risk to which he belongs and to the forms and amount of the policy for age at that time.



SALARY ALLOTMENT INSURANCE PLAN

Purpose: All employees regardless of occupation can purchase life insurance at standard premiums on an easy payment plan.

Who May Buy Insurance: All full time employees and their family members may buy insurance without any waiting period.

Advantages: (1) Due to the high safety standards of the Company and a cross section of insured employees, standard rates are offered on insurance up to \$10,000 per employee. (2) With some limitations as to age and physical condition all forms except term insurance are offered without medical examination. (3) Payment is by monthly deductions from salaries or wages.

Miscellaneous Information: Upon termination the employee keeps the same policy and pays his premium direct to the Travelers Insurance Company. Mr. Maurice B. Marks is the Travelers representative for the Hercules Plant and may be contacted through J. F. Nicholls.

EMPLOYE

EMPLOYE

HERCULES EMPLOYE AS AN EMPLOYEE

When a man or woman accepts employment with an organization he also accepts certain responsibilities as an employee. This responsibility does not end with completing 8 hours of work safely each day. Management also accepts certain responsibilities when a man is hired. Some of these mutual responsibilities are set forth in this section:

TIMEKEEPING

Pg. 35

Absences

Transfers

Change of Rate

Change of Address

SAMPLE TIME SHEET

Pg. 36

WORK DAY AND WORK WEEK

Pg. 37

HOLIDAY PAY

Pg. 38

WASH UP TIME

Pg. 39

MEMORANDUM FOR THE RECORD

DATE: 10/10/54

RE: [Illegible text]

TO: [Illegible text]

FROM: [Illegible text]

SUBJECT: [Illegible text]

[Illegible text]

[Illegible text]

[Illegible text]

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TIMEKEEPING

This discussion is intended to clarify the attached sample time card which shows the correct method of recording time.

Detailing: When an employe is temporarily assigned to a higher job he shall receive the higher rate while on the job and if he works at the higher rated job for ten out of 15 successive working days his rate shall be established at the higher rate. When a higher rate is established the employe is eligible to that rate for ten days after he has been transferred to a lower paid job unless such transfer was at the employes request or as the successful bidder on a lower paid job. The notation EST. (ESTABLISHED) is to be used in the rate column to designate the higher rate for the ten day period after transfer to lower rate job. If the employe is returned to a higher paid job before the end of the ten day period and does not again establish himself, he shall receive the balance of the ten days at the higher rate after he has again returned to a lower paid job. It is the responsibility of the Department Head to keep records of detailed and Established rates.

Absences: All employes whose names appear on the time sheet must be credited with time or shown as being off. Only the following designations will be accepted as reasons for time off: D. O. (DAY OFF), A.W.L. (ABSENT WITH LEAVE), A.W.O.L. (ABSENT WITHOUT LEAVE), SICK (the type of sickness should be indicated if possible), Vacation and I. I. (Industrial Injury, the number of which should be shown).

Transfers: When an employe is transferred from one department to another, the Department Head of the department into which employe is transferred should record the date of such transfer.

Change of Rate: When an employe is entitled to a change of rate due to a change of job classification or for any reason, other than a general plant change, a "CHANGE OF RATE" form shall be filled out by the head of the Department in which the employe works and sent to the payroll department for processing.

Change of Address: Payroll records are used in times of individual and Company emergency and when changes in working schedules are required. For this reason the accuracy of these records is important. It is necessary that the address and telephone number of employes be correct and up to date. Any changes should be reported to the payroll department immediately.

MEMORANDUM

TO : The President of the United States
FROM : The Secretary of the United States

Subject: The proposed amendment to the Constitution of the United States, which would give the President the power to appoint and remove judges of the Supreme Court and the lower federal courts.

The proposed amendment is a significant change to the structure of the federal judiciary. It would give the President the power to appoint and remove judges of the Supreme Court and the lower federal courts. This would be a major shift in the balance of power between the executive and judicial branches of the federal government.

The proposed amendment is supported by many members of the President's cabinet and by a large number of members of Congress. It is also supported by a large number of members of the public.

The proposed amendment is a necessary change to the Constitution. It would give the President the power to appoint and remove judges of the Supreme Court and the lower federal courts. This would be a major shift in the balance of power between the executive and judicial branches of the federal government.

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DAILY TIME CARD

DISTRIBUTION

DATE

		TOTALS				\$200	Holiday	EXPLANATION (This not to be put on time card)									
Rate	NAME	HOURS			AMOUNT												
		7-3	3-11	11-7													
2.08	JOE DOKES	8				8										(Day shift - regular rate)	
2.14	JOHN DOKES		8			8										(Shift premium - Afternoon)	
2.20	JIM DOKES			8		8										(Shift premium - Graveyard)	
Det. 1.88	JOHN DOE	8				8										(Detailed to a Job Rate)	
Est. 1.88	JOHN JONES	8				8										(Established rate - 10 days)	
1.79	JAMES DOE	8				8		✓								(Holiday actually worked)	
1.79	JAMES JONES	✓						✓								(Holiday allowed - but not worked)	
	JAMES DOE	D. O.														(Scheduled day off)	
	JOE SMITH	A.W.L.														(Absent with leave)	
	JOHN SMITH	A.W.O.L.														(Absent without leave)	
	JAMES SMITH	SICK - FLU														(Give reason if possible)	
	JIM SMITH	VACATION															
	JOHN DOE	I. I.														(Industrial Injury)	
** All erasures in these two columns should be initialed by Supv.																	
A change of rate slip must be turned in the first day a man works on a BID JOB. If he returns to his former job within the 10 days required, a change back is necessary.																	
Do not write below this line.																	
The above shows exactly how time cards are to be prepared DET. and EST. must be written in.																	
APPROVED		(Signed by Supervisor)															

DO NOT WRITE IN THESE SPACES

1004 DOE

1111 CHILL

1212 CHILL

1313 CHILL

1414 CHILL

1515 CHILL

1616 CHILL

1717 CHILL

1818 CHILL

1919 CHILL

2020 CHILL

2121 CHILL

2222 CHILL

WORK DAY AND WORK WEEK

Payroll Period: The payroll employees are paid each two weeks on Thursday and the payroll period closes on Monday morning immediately preceding the payday. The work day commences at 7:00 A. M. and the work week commences at 7:00 A. M. on Monday morning.

Shift Differentials: These are paid certain employees since their hours of work deprive them of a normal living schedule. This differential is 6 cents per hour for the afternoon shift and 12 cents per hour for the midnight shift. The shift assigned rather than the clock hours worked shall determine the payment of shift differential. When the hours of work cross two night shifts the applicable night shift differential for that shift in which the greater number of hours is worked shall apply. Night shift differential shall not apply to day employees or to employees working daylight shift who work beyond their regular quitting time.

Emergency Call-In Time: Our collective bargaining agreement contains no section concerning time to be allowed for a call back to work in emergency. This has resulted in some variation in the manner of handling by the different departments. It has been agreed that an employee called back to work outside his regularly scheduled hours shall be allowed two hours work or two hours pay in lieu thereof if he resides in Hercules, Pinole, or Rodeo. Outside these limits, the allowance is four hours rather than the two hours mentioned above. Of course, should an employee work more than the two hours or four hours mentioned above, he will be paid for the time worked.

Policy on Furnishing Meals to Employees Working Overtime: Employees who are to work beyond their regular work day or shift at the Company's request for a period of two full hours or more are entitled to a meal allowance. This is a meal at company expense, or 75 cents in lieu of such meal, whichever is most suitable to the occasion, and an additional meal or 75 cent allowance in lieu of a meal for each additional consecutive four hour period thereafter. Time for eating such lunches or meals will be considered as time worked providing one half hour is not exceeded. This time limit also applies to those who may elect to go to their near-by homes for food under the 75 cent allowance option. Those entitled to money in lieu of meal allowances are to be indicated on time sheets, and reimbursement will be made from the Petty Cash Account on the next following pay day.

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consult the New York Public Library Catalog,
which is available in the library or by mail.
For more information, contact the Librarian.

See Letter dated March 31, 1955

HOLIDAY PAY

Purpose: Certain Holidays are considered overtime when worked by hourly paid employees or non-exempt salaried employees. These are:

New Years Day	<i>Bank Holiday</i>	Labor Day
Memorial Day	<i>Friday</i>	Thanksgiving Day
Independence Day		Christmas Day

Methods of Computation: If an employee works eight hours on a holiday he receives eight hours holiday pay plus eight hours pay for work or a total of 16 hours pay. If he works four hours on a holiday he receives eight hours holiday pay plus four hours pay for work or a total of 12 hours pay. If his regular work schedule is interrupted by a holiday which he does not work he then receives eight hours holiday pay. If the employee is not scheduled to work on a holiday, he does not receive holiday pay. The rate paid for a holiday not worked is that which the employee would have received had he worked, i.e., detailed or established rate.

Overtime Compensation: Payment of holiday pay will credit the employee with eight hours in the computation of overtime.

Non-allowance of Holiday Pay: If the employee is on unexcused absence on the holiday or on the scheduled work day next preceding or next succeeding the holiday he will not be granted holiday pay for the holiday not worked.

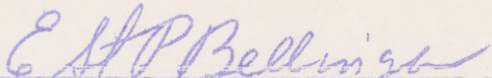


Hercules, California
March 31, 1955

To: Nicholls
Riley
Sutton
Swafford
Ludwig
Hoffmann
Sailer
Green

RE: APRIL 8, 1955

Good Friday, April 8th, will be observed as a legal holiday by the Plant. Therefore, please make arrangements to have in for work only the minimum of men required to carry on continuous operations. Under our new agreement, a holiday worked is paid for at 2-1/2 the regular rate. Holiday hours not worked will be counted as hours worked for the purpose of overtime in the week ONLY when the holiday falls on an employee's scheduled work week. For the purpose of crediting a Holiday, the paid day commences at 7:00 A.M. of the Holiday and continues until 7:00 A.M. the following morning.


E. ST. P. BELLINGER, WORKS MANAGER

ESB/b

WASH UP TIME

Shift Relief and Wash Up Time Allowance:

All operations on around-the-clock shift work require that the on-coming employe relieve the off-going employe in person. An exceptions to this shall be only with the approval of the supervisor or other persons in charge of the particular operation. Shift employes are to be allowed reasonable time within their shift for changing clothes and for personal cleanup in all cases wherein their particular operation will not be jeopardized.



Acid Area Maintenance
Ammonia Area Maintenance
Main Shops
Rigger Crew
Transportation

The above listed employes will be allowed five minutes time for putting away tools and ten minutes for washing up and changing clothes a total of 15 minutes at the end of the work day. Passing through the main gate before quitting time is not to be permitted.

Crystallizer Operations: Because of the nature of the operation one person is required to be in the crystallizer house at all times. For this reason cleanup arrangements should be staggered so that at least one person is present in the house. Kettle and hipan equipment is to be operated around the clock and packing machines (bagging operation) are to be operated as needed until 45 minutes before the end of the shift. This arrangement allows 25 minutes for building cleanup and 20 minutes for personal wash up.

Dynamite Operations: Packing machines or operating houses will be expected to be kept in operation until thirty minutes before quitting time; ten minutes of this to be occupied in readying the machine or house for cleanup and twenty minutes for personal cleanup. No employe is to leave his place of work before twenty minutes of the quitting hour without express permission of the Line Foreman. It will be permissible for the employe to utilize a portion of his cleanup time in walking to Gate 13 or the Main Gate except that he may not leave either gate before final quitting time without permission from the Line Foreman.

Black Powder: Operators and Helpers are to complete their days work at such time as their buildings can be properly cleaned or they are relieved by on-coming shift and still allow themselves thirty minutes to reach the change house for personal cleanup. Others not working in powder and not wearing powder clothes are allowed twenty minutes from their place of work to reach the change house for personal cleanup. No employe is to pass thru the Black Powder Gate before his quitting time except with the express permission of his foreman.

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ABSENCE REPORT

Name

Address

Date and Time of call-in

TELEPHONE

Last shift worked

Next shift due to work

Reason for absence:

(1) Sickness,

(2) Industrial Injury,

(3) Personal Injury,

(4) Illness of family,

(5) Personal business,

(6) Other

Explanation of reason for absence

Doctor's name

If hospitalized, where

Estimated length of disability

Absence approved by

Date returned to work

No. days lost

Examined by plant doctor

Authorized return to work by personal doctor

Progress report (continue over)



TO ALL PERSONNEL

The Management and Union have worked out a uniform method of reporting absentees which will simplify our records and assure continued maintenance of the Company's liberal plan of disability wages. We call attention to paragraph 2, page 4, "Disability Wage Plan" in the attached revised pamphlet on "Benefits and Services for Hercules Employees".

Effective October 1, 1954, report as follows:

1. If you are unable to come to work because of sickness, accident or other emergency, call Mrs. Flynn on plant phone 319. If there is no answer, call Mr. Swafford, plant phone 209. Call either number between 7:30 A.M. and 4:00 P.M. and give the information requested on the attached form.
2. Report as soon as possible so that provision can be made for your replacement and not later than four hours previous to the start of your shift.
3. If you are on a night or special shift, or week-end shift, call your department shift supervisor and give the same information requested above.

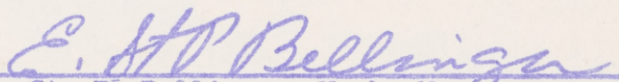
(It is realized that in some instances it may be impossible to report four hours previous to the start of the shift, therefore, any deviation from the above will be treated as special on the merits of the case).

The Medical Department will advise your department head, and/or, the Shift Supervisor will advise the Medical Department, where all absentee records will be kept.

If you have made previous arrangements with your Department Supervisor to be away, it will not be necessary to report as outlined above. In that case the Department Supervisor will advise the Medical Department of the arrangement and dates of absence.

Absences not reported or without reasonable excuses will be considered unexcused absences.

Yours very truly,


E. St. P. Bellinger, Works Manager

WSS/h

TO ALL BUREAUS

Enclosed for the Bureau of the Interior are two copies of a report of the Commissioner of the General Land Office, dated and captioned as above. The report contains information regarding the status of the land claims in the State of California.

Very truly yours,

I am enclosing for the Bureau of the Interior two copies of a report of the Commissioner of the General Land Office, dated and captioned as above. The report contains information regarding the status of the land claims in the State of California.

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Very truly yours,

E. W. Bellinger
E. W. Bellinger, Acting Director

WASH.

GOVT. REG.

GOVT. REG.

INCOME TAX WITHHELD FROM WAGES

Federal law requires that employers withhold income taxes from the wages of employees and the payment of these taxes to the Collector of Internal Revenue.

The term "wages" is used to cover all types of employee compensation including overtime, salaries, fees, bonuses, commissions, and such other forms of compensation as room or meals, stocks and bonds.

Payroll Period: Taxes to be withheld are computed on the basis of a payroll period. This is the period of service for which the employer pays wages to an employee. There may be only one such period with respect to wages paid by any one employer and taxes shall be withheld even though the employee does not work the full period.

Supplemental wages - overtime pay, bonuses, etc. - if paid at the same time as regular wages, are taxed at the regular rate. If paid at a different time the employer generally will withhold a flat 18 per cent of the supplemental wages.

Vacation pay is subject to withholding as if it were a regular wage payment made for the payroll period or for periods which occur during the vacation. If an employee foregoes his vacation and still receives his vacation pay, such payment is treated as supplemental wages.

Exemptions for Dependents: Exemptions for dependents are made by employers on the basis of a withholding exemption certificate signed by the employee usually before employment. If an employee fails to furnish this certificate the employer is required to withhold tax as if the employee had claimed no withholding exemptions. These "withholding exemptions" correspond to those allowed the employee in computing his income tax on his annual return. The employer is advised to inform the Revenue Department if it is believed that an excessive number of dependents has been claimed. Exemption certificates remain in effect until an amended certificate is furnished by the employee as the number of his dependents varies.

Conditions for Filing Amended Certificates: Any change in the employee's dependents must be recorded by filing an amended certificate immediately. Amended certificates ordinarily become effective with the next payment of wages but may be postponed until the first status determination date which

1. The first part of the report deals with the general situation of the country and the progress of the work during the year. It is divided into two main sections: the first section deals with the general situation and the second section deals with the progress of the work.

2. The second part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work in the field and the second section deals with the results of the work in the laboratory.

3. The third part of the report deals with the conclusions of the work during the year. It is divided into two main sections: the first section deals with the conclusions of the work in the field and the second section deals with the conclusions of the work in the laboratory.

4. The fourth part of the report deals with the recommendations of the work during the year. It is divided into two main sections: the first section deals with the recommendations of the work in the field and the second section deals with the recommendations of the work in the laboratory.

5. The fifth part of the report deals with the summary of the work during the year. It is divided into two main sections: the first section deals with the summary of the work in the field and the second section deals with the summary of the work in the laboratory.

occurs at least 30 days after the date on which the certificate is filed with the employer.

Method of Computing Taxes: Either the table or percentage method may be used in the computation of withholding taxes. Tables have been provided for weekly, bi-weekly, semi-monthly, and daily or miscellaneous payroll periods. Hercules uses the bi-weekly table. Both methods give the employee full benefit of exemptions claimed by the employee and the ten per cent standard deduction for charitable contributions, etc.

Withholding Statements: Two copies of the Form W-2 (original and duplicate) must be furnished an employee before January 31 of each year. This Form will show the wages paid and the tax deduction under the law for the previous year. Even though no income tax was withheld a withholding statement must be furnished to each employee whose wages for any payroll period during the year exceeded \$13 for a weekly payroll period, \$26 for a bi-weekly period, \$28 for a semi-monthly period, \$56 for a monthly period, or \$2 a day for a daily or miscellaneous period.

Where employment ends before the close of the calendar year the withholding statement is required to be furnished to the employee by the employer not later than 30 days after the last payment of wages.

If it becomes necessary to correct a Form W-2 after an original and duplicate have been delivered to an employee, the new statement should be clearly marked "Corrected by Employer." If the withholding statement is lost or destroyed, the employer is authorized to furnish substitutes to the employee. Each substitute copy must be clearly marked "Reissued by Employer."

Triplicate copies (Form W-2a) of all withholding statements issued during the year must be transmitted to the Collector of Internal Revenue by the employer.

occurs at least 30 days after the date on which the certificate is filed with the employer.

Method of Determining Losses: Either the table or percentage method may be used in the computation of withholding taxes. Tables have been provided for weekly, bi-weekly, semi-monthly, and daily or miscellaneous payment periods. Percentages have been provided for weekly, bi-weekly, and daily payments. Both methods give the employer the benefit of deductions claimed by the employee and the tax for each period of deduction for charitable contributions, etc.

Withholding Requirements: The copies of the Form W-2 (Employee's Annual Statement of Earnings and Tax) must be furnished to the employee before the close of the calendar year. This form will show the wages paid and the tax withheld under the law for the previous year. Even though no income tax was withheld a withholding statement must be furnished to each employee whose wages for any year were \$100 or more. The form must be furnished to the employee before the close of the calendar year. The form must be furnished to the employee before the close of the calendar year. The form must be furnished to the employee before the close of the calendar year.

These statements must be furnished to the employee before the close of the calendar year. The statements must be furnished to the employee before the close of the calendar year. The statements must be furnished to the employee before the close of the calendar year.

It is necessary to carry a Form W-2 after an employee and employer have been determined to be subject to the new withholding system. It is necessary to carry a Form W-2 after an employee and employer have been determined to be subject to the new withholding system. It is necessary to carry a Form W-2 after an employee and employer have been determined to be subject to the new withholding system.

Employers must (Form W-2) of all withholding statements. Employers must (Form W-2) of all withholding statements. Employers must (Form W-2) of all withholding statements.

UNEMPLOYMENT INSURANCE

Purpose: Another financial safeguard for the employe is the California Unemployment Insurance Act, the aim of which is to provide benefits for the unemployed through payroll taxes.

Other aims of the Act are to stabilize purchasing power, to assist in finding work for the unemployed, and to minimize the necessity for public relief.

Taxable payrolls and wages provide the funds for the operation of the Act. Employers are liable for a maximum of 2.7 per cent of taxable payrolls, such contributions being used solely for unemployment benefits. An employers rate of insurance depends upon his unemployment experience, i.e., the fewer former employes who draw unemployment insurance the lower is his rate of tax.

Form of and Eligibility for Benefits: Benefits are paid weekly to eligible unemployed through local State offices. In order to be eligible the employe must:

- (1) Have been paid wages of at least \$300 during his "base period."
- (2) Have earned 30 times his weekly benefit amount in his base period if 75 per cent of his total base period earnings were concentrated in one quarter of his base period.
- (3) Properly file claims and register for work, be unemployed, physically able to work, available for and willing to accept employment, and make reasonable efforts to find work himself.
- (4) Undergo a waiting period of one week.

Amount and Duration of Benefits: On the basis of the information in the employe's claim the State will compute the weekly rate of payment. This will vary from a minimum of \$10 to a maximum of \$25, depending on earnings in the highest quarter of the base period. The maximum amount payable will be fixed at 26 times the weekly benefit or one half the total base period wages, whichever is the less.

Disqualifications for Benefits: An employe may disqualify himself for benefits from two to five weeks by; voluntarily quitting his job without good cause, being discharged for misconduct, making a false statement to secure benefits, or refusing an offer of suitable employment without good cause.

This period of disqualification can be extended by the State and the employe is required to register during this period thus giving the State a better opportunity to find him a

STATEMENT OF WORK

1. Project Name

The project is a software application designed to manage the company's financial data. It will be developed using the latest technologies and will be deployed to the production environment.

The project will be managed using the agile methodology. The development team will work in sprints, and the project will be monitored using the project management tools.

The project will be completed by the end of the year. The development team will be responsible for the development, testing, and deployment of the application.

The project will be managed by the project manager. The project manager will be responsible for the overall management of the project, including the development, testing, and deployment of the application.

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The project will be completed by the end of the year. The development team will be responsible for the development, testing, and deployment of the application.

suitable job.

A worker who leaves work because of a trade dispute is disqualified from receiving unemployment compensation for an indefinite period, or as long as he remains out of work because the trade dispute continues at his place of work.

Claims and Appeals Procedure: A claim must be filed for each week of unemployment and every claimant must register for work and file his claim in person.

The claimant's last employer is notified promptly of the filing of a claim which establishes a benefit year, or starts a new period of unemployment within a benefit year. Both the employer and employee are notified of the computation of benefits and the employer may protest the accuracy of the computation or supply information as to the claimant's eligibility. The claimant, and any employer who submits facts as to the eligibility in accordance with regulations, is promptly notified of the determination of eligibility and the reasons for it.

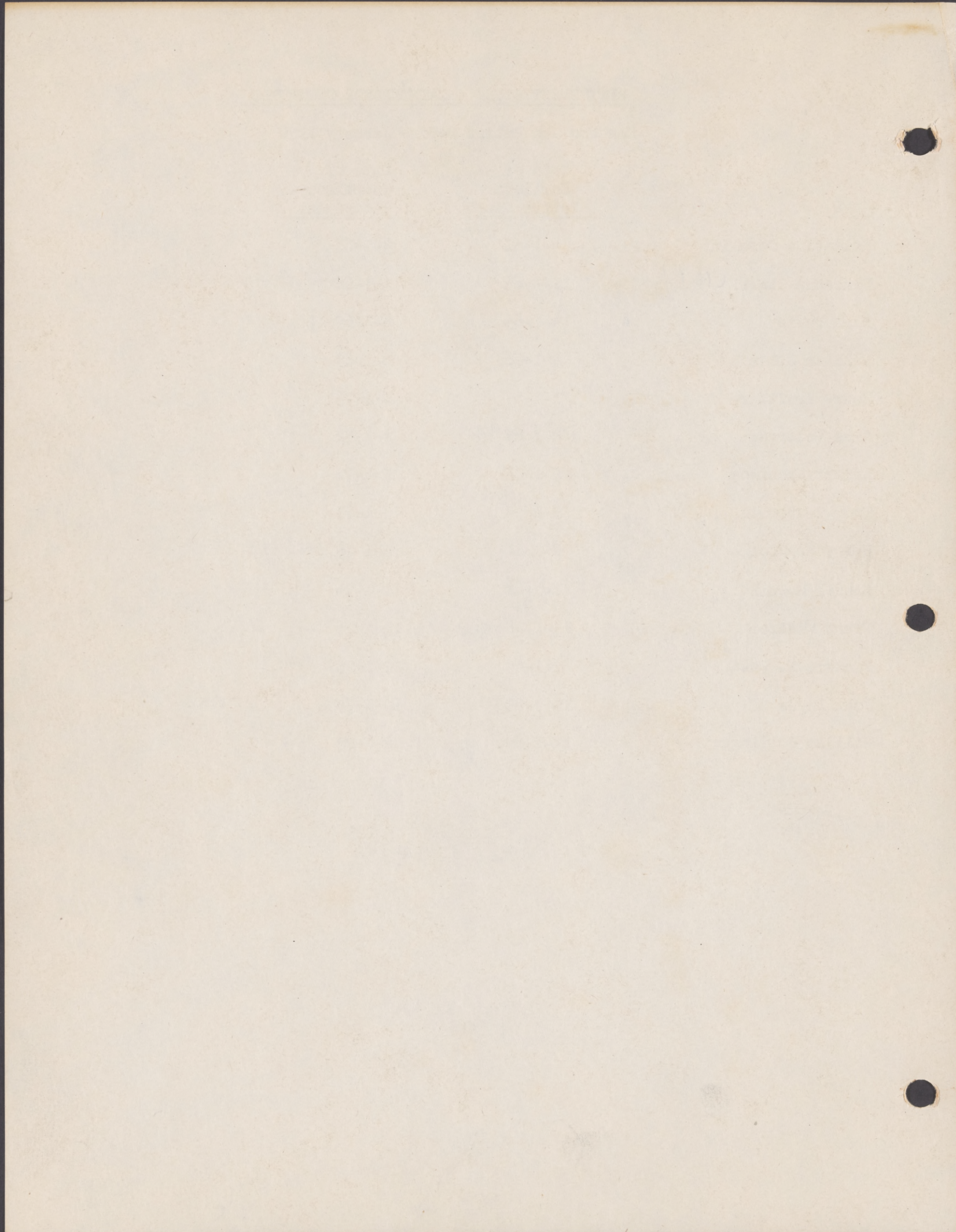
MISC.

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RETIREMENT STUDY - MAINTENANCE DEPARTMENT

Men Who Can Retire Before January 1970

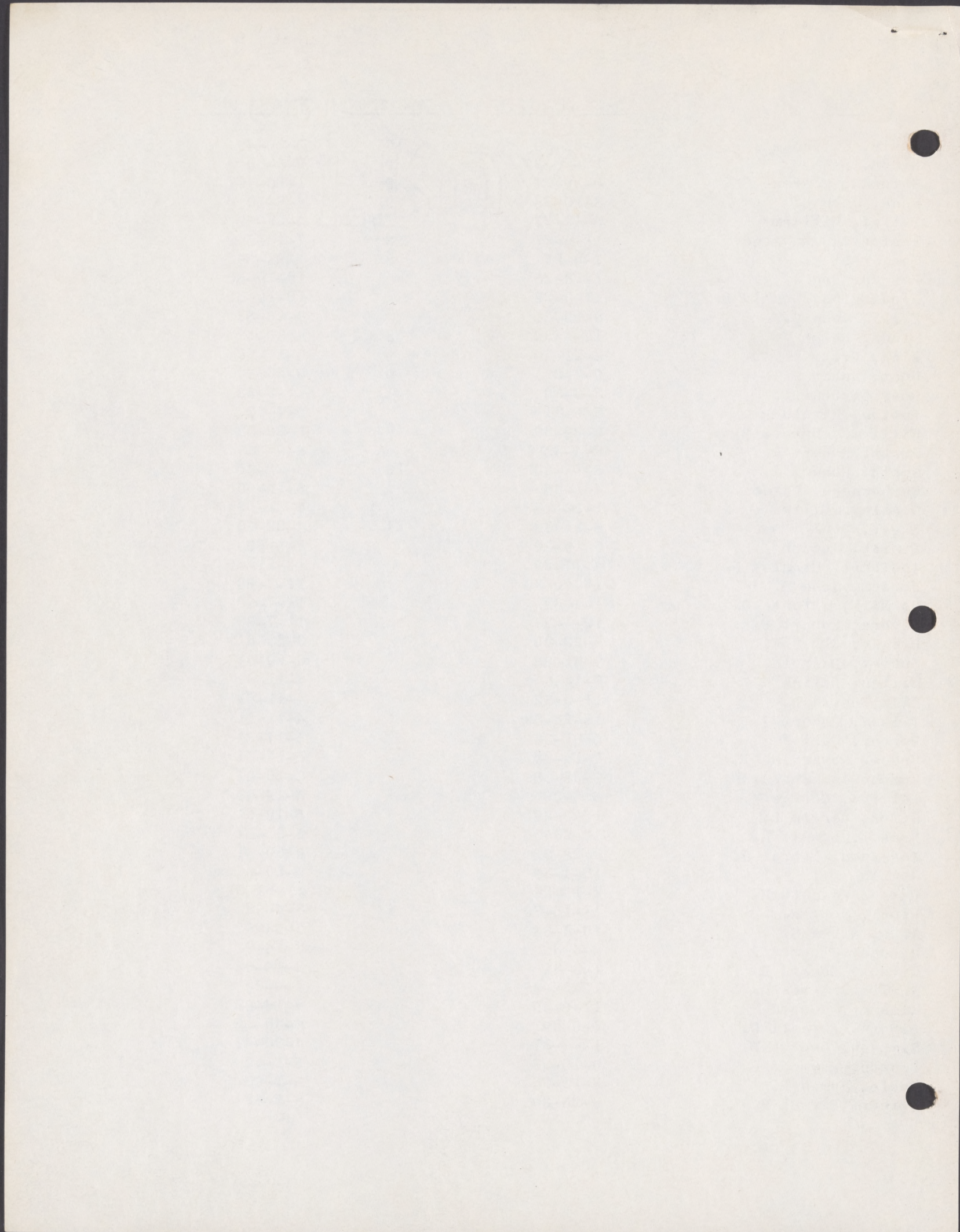
<u>NAME</u>	<u>Date of Earliest Retirement</u>	<u>Date of Compulsory Retirement</u>
Valentino Ceselini	4-1-61 ^A	4-1-68
Clarence Clark (Pat)	11-1-63	11-1-68
Hugh Davis	4-1-65	4-1-69
William Silva	4-1-66	6-1-69
Henry Kreitzer	1-1-67	1-1-73
Lars Pedersen	4-1-67✓	4-1-72
Albert Atchison	5-1-68✓	5-1-71
Tony Santaella	5-1-68	5-1-73
Harry Scarsella	6-1-68	6-1-75
Daniel McCall	11-1-68✓	11-1-74
Frank Maderos	11-1-68	11-1-75
Francis T. West	2-1-69	2-1-75
John Payne	10-1-69✓	10-1-74
William Bollinger	12-1-69	12-1-73



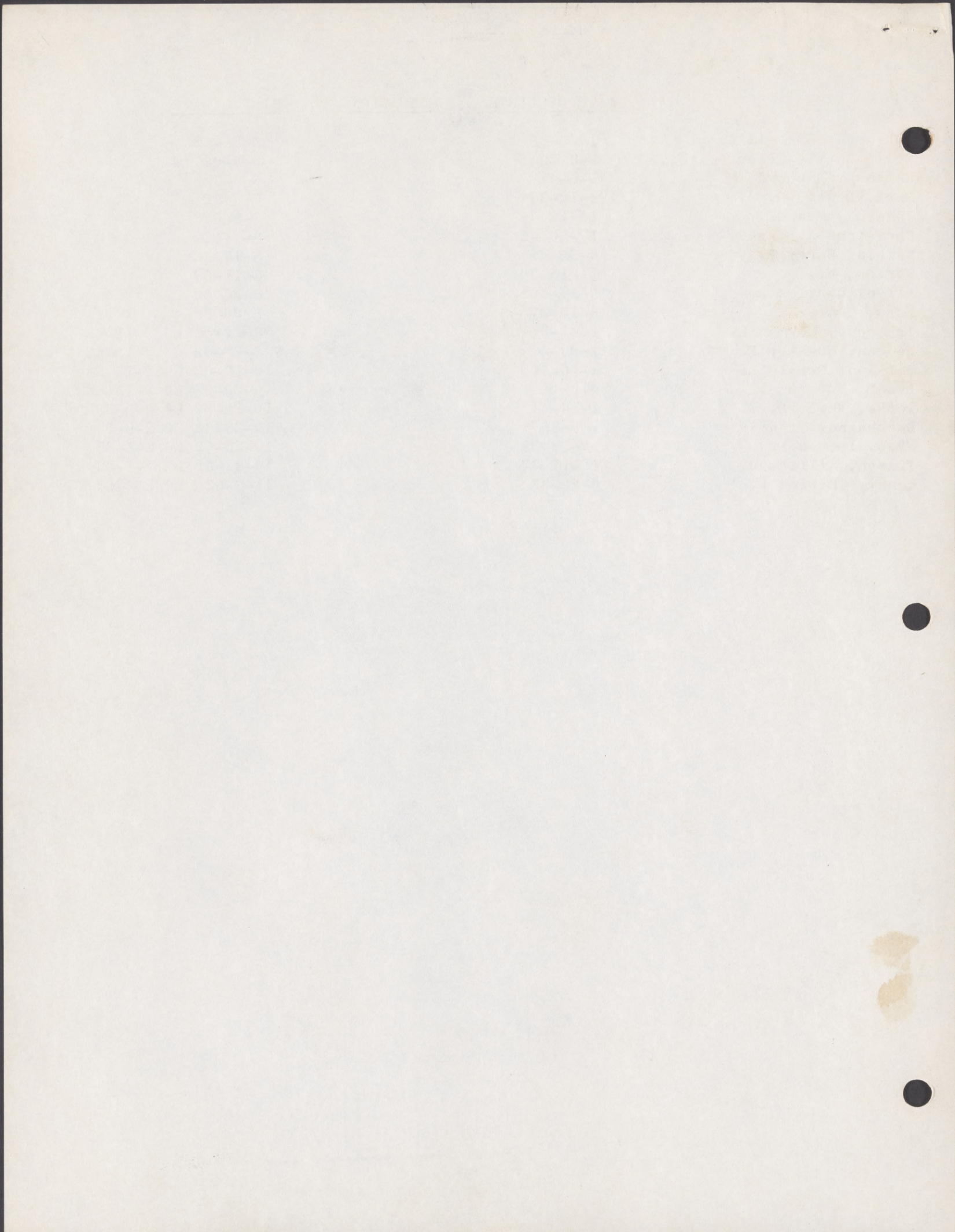
63
36
27

1963
35
28

NAME	DATE OF BIRTH	EDUCATION	HIRING DATE
• Davis, J. Wendell	4-22-29	10	5-26-49
X Slade, Gene	12-25-27	9	6-6-49
X Goforth, Clarence	5-29-27	9	1-19-49
X Lane, John C.	8-16-28	9	5-8-50
Daniel, William <i>Elect Shop</i>	5-12-27		5-24-50
Pieterick, Raymond	11-4-27	8	7-13-50
Poe, Paul	7-6-27	8	7-21-50
Howard, Don <i>Pipe Shop</i>	1-18-28		10-10-50
Headington, Ronald B.	11-3-29		10-10-51
Clark, John Q. <i>Shop</i>	8-19-28		4-16-52
Slade, Ralph	12-4-30	8	4-30-52
King, Billy <i>Shop</i>	2-21-30	9	8-27-52
X Hunt, Ruben	9-7-27	9	9-26-52
Roay, Arthur P. <i>Shop</i>	3-3-30		11-3-52
Button, Harold R.	3-6-31		5-7-53
Williams, Hubert B.	2-29-28	8	5-22-53
Pratt, Robert L. <i>Pipe Shop</i>	2-4-35		8-9-56
X Speth, Robert J.	6-13-30	10	3-22-60
Carbonneau, Wayne	4-1-36		6-14-60
Hensley, Billy	1-12-38		6-21-60
Engel, Paul	5-14-39	11	6-22-60
Banish, Joseph	6-19-30		7-5-60
Audibert, Stanley F.	4-17-28		10-21-60
Heuser, John R. Jr.	12-20-38		11-7-60
Normali, Alfonso G.	1-4-33		11-7-60
• Evore, Robert F.	10-1-37		11-7-60
Rieger, Elmer F.	4-22-30		3-23-61
Ousley, Darrold	7-31-36		3-29-61
Miller, Dallas	7-1-34		4-11-61
Kirk, David D.	11-5-32		4-11-61
Tilson, Robert T.	11-24-39		4-11-61
Barber, Carlos	5-31-38		5-17-61
Vroom, Howard H.	7-14-34		5-17-61
Humphries, Sherel D.	8-28-38		5-19-61
Pullins, George W.	5-6-30		5-19-61
Silva, Gerald L.	12-6-38		5-19-61
Newell, Lonnie L.	12-23-39		5-31-61
Anderson, Laurel J.	3-22-36		8-30-61
Jensen, Dell W.	10-4-39		9-20-61
Rakes, Kenneth E.	7-16-28		11-27-61
Flosi, John R.	11-15-39		3-5-62
Amos, Alden S.	10-3-38		3-14-62
Mahoney, Thomas P.	8-4-39		3-14-62
Wilcox, Donald R.	1-8-31		3-14-62
Shaffer, James H.	12-22-38		4-9-62
Minster, Jerald, H.	11-2-38		4-16-62
Osborn, Burnell C.	6-9-39		4-30-62
Simpson, George D.	12-4-37		4-30-62
Lawson, Raymond L.	9-16-38		5-1-62
• Seale, James H.	3-13-36		5-1-62
Spicer, Darrel W.	9-25-39		5-7-62



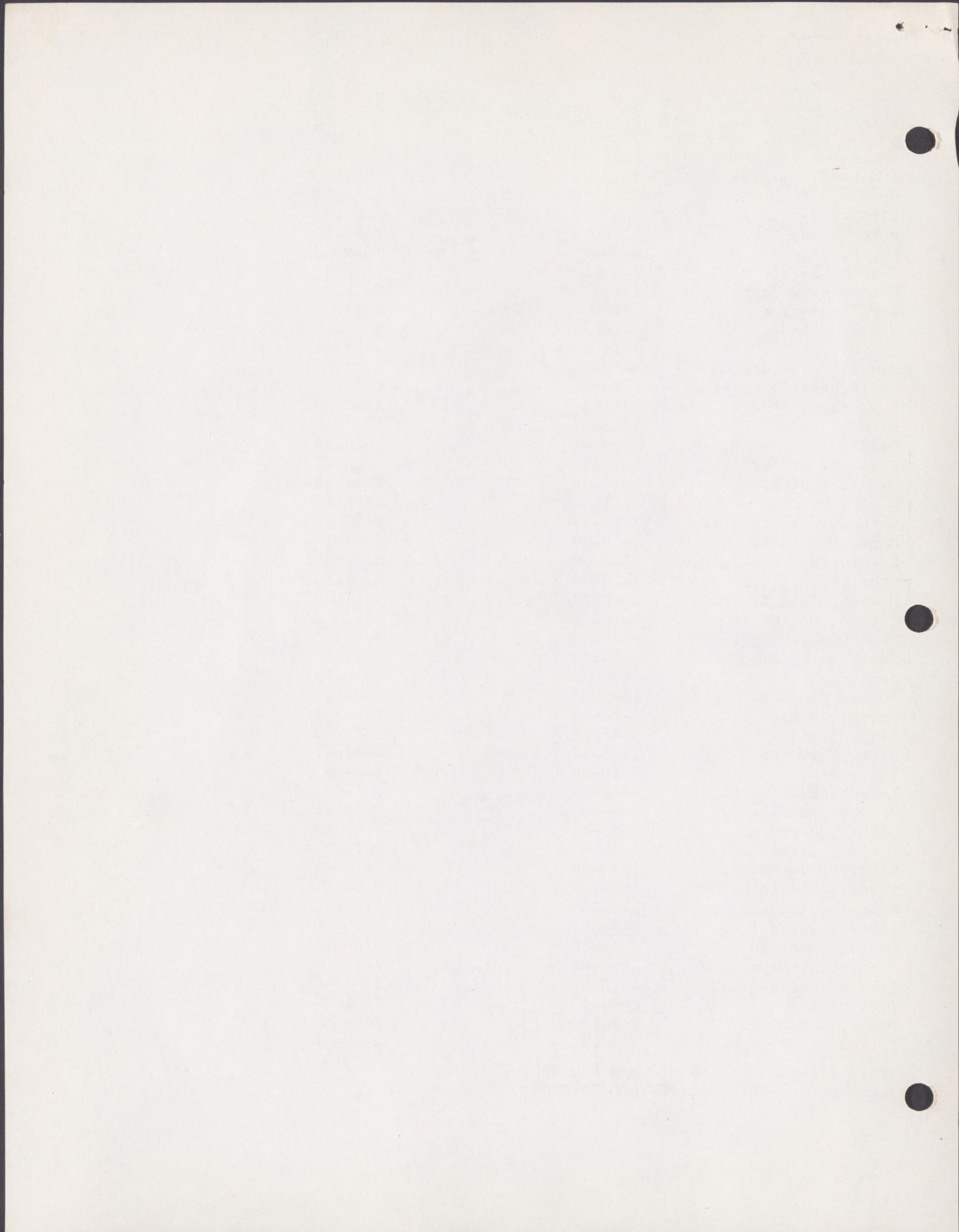
<u>NAME</u>	<u>DATE OF BIRTH</u>	<u>EDUCATION</u>	<u>HIRING DATE</u>
Robinson, Russell L.	10-5-38		5-21-62
Delli Gatti, Ernest J. Jr.	2-3-29		6-8-62
Eastman, Richard	1-5-41		6-8-62
Hart, Ronald G.	4-10-33		6-8-62
Jones, James R.	11-18-38		6-8-62
Christensen, Mark	12-20-40		8-17-62
Mathis, Harry E.	4-25-41		8-17-62
Worton, Wm. J.	11-15-36		8-17-62
Allen, Charles R.	9-17-36		8-20-62
Bers, Henry	8-16-27		8-20-62
Trainque, Norman L.	10-1-31		8-22-62 L0 2-15-63
Duncan, Chester F.	1-20-41		8-23-62 L0 2-15-63
Pillion, Gerald L.	1-16-40		10-10-62 L0 2-15-63
Brush, Thomas J.	9-3-41		10-22-62 L0 2-15-63
Yeske, Verle D.	1-14-41		10-22-62 L0 2-8-63
Deschaine, Francis	1-5-39		10-23-62 L0 2-8-63
West, Thomas D.	12-13-38		10-29-62 L0 2-8-63
Tilson, William O.	12-17-37		10-31-62 L0 2-8-63
Kenny, Charles I.	6-22-32		11-7-62 L0 2-8-63



<u>NAME</u>	<u>DATE OF BIRTH</u>	<u>EDUCATION</u>	<u>HIRING DATE</u>
Allen, Charles R.	9-17-36		8-20-62
Amos, Alden S.	10-3-38		3-14-62
Anderson, Laurel J.	3-22-36		8-30-61
Audibert, Stanley F.	4-17-28		10-21-60
Banish, Joseph H.	6-19-30		7-5-60
Barber, Carlos D.	5-31-38		5-17-61
Bers, Henry S.	8-16-27		8-20-62
*Brush, Thomas J.	9-3-41		10-22-62
Button, Harold R.	3-6-31		5-7-53
Carbonneau, Wayne O.	4-1-36		6-14-60
Christenson, Mark	12-20-40		8-17-62
Clark, John Q.	8-19-28		4-16-52
Daniel, Wm. W.	5-12-27		5-24-50
Davis, J. Wendell	4-22-29	10	5-26-49
Delli Gatti, Ernest J.	2-3-29		6-8-62
**Deschaine, Francis	1-5-39		10-23-62
Devore, Robert F.	10-1-37		11-7-60
Duncan, Chester F.	1-20-41		8-23-62
Eastman, Richard	1-5-41		6-8-62
Engel, Paul P.	5-14-39	11	6-22-60
Flosi, John R.	11-15-39		3-5-62
Goforth, Clarence A.	5-29-27	9	9-19-49
Hart, Ronald G.	4-10-33		6-8-62
Headington, Ronald B.	11-3-29		10-10-51
Hensley, Billy F.	1-12-38		6-21-60
Heuser, John R. Jr.	12-20-38		11-7-60
Howard, Don C.	1-18-28		10-10-50
Humphries, Sherel D.	8-28-38		5-19-61
Hunt, Ruben F.	9-7-27	9	9-26-52
Jensen, Dell W.	10-4-39		9-20-61
Jones, James R.	11-18-38		6-8-62
**Kenny, Charles I.	6-22-32		11-7-62
King, Billy F.	2-21-30	9	8-27-52
Kirk, David D.	11-5-32		4-11-61
Lane, John C.	8-16-28	9	5-8-50
Lawson, Raymond L.	9-16-38		5-1-62
Mahoney, Thomas P.	8-4-39		3-14-62
Mathis, Harry E.	4-25-41		8-17-62
Miller, Dallas R.	7-1-34		4-11-61
Minster, Jerald H.	11-2-38		4-16-62
Newell, Lonnie L.	12-23-39		5-31-61
Normali, Alfonso G.	1-4-33		11-7-60
Osborn, Burnell C.	6-9-39		4-30-62
Ousley, Darrold L.	7-31-36		3-29-61
Pieterick, Raymond J.	11-4-27	8	7-13-50
*Pillion, Gerald L.	1-16-40		10-10-62
Poe, Paul	7-6-27	8	7-21-50
Pratt, Robert L.	2-4-35		8-9-56
Pullins, George W.	5-6-30		5-19-61

*Laid off due to lack of work 2-8-63

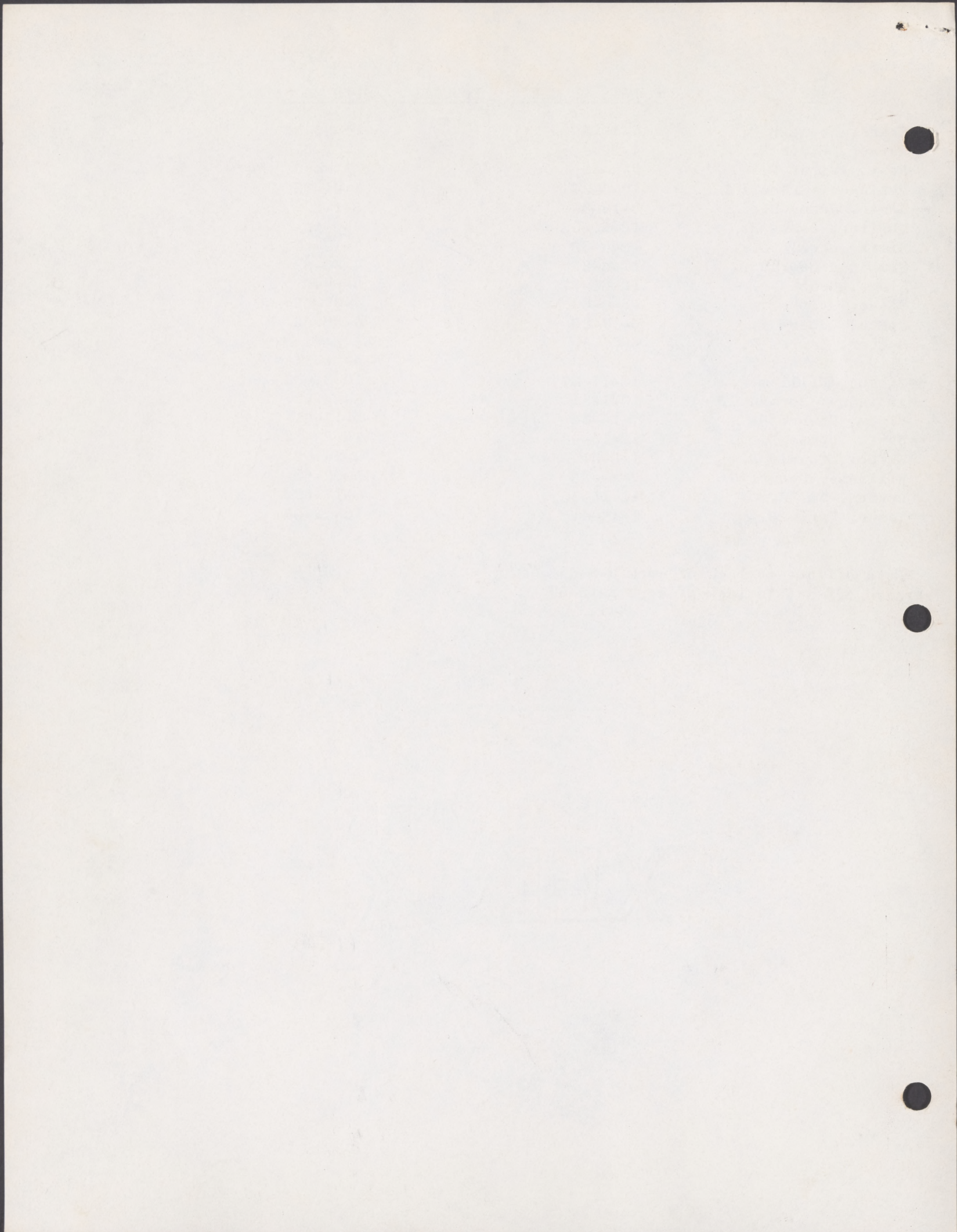
**Laid off due to lack of work 2-15-63



<u>NAME</u>	<u>DATE OF BIRTH</u>	<u>EDUCATION</u>	<u>HIRING DATE</u>
Rakes, Kenneth E.	7-16-28		11-27-61
Reiger, Elmer F.	4-22-30		3-23-61
Roay, Arthur P.	3-3-30		11-3-52
Robinson, Russell L.	10-5-38		5-21-62
Seale, James H.	3-13-36		5-1-62
Shaffer, James H.	12-22-38		4-9-62
Silva, Gerald L.	12-6-38		5-19-61
Simpson, George D.	12-4-37		4-30-62
Slade, Gene	12-25-27	9	6-6-49
Slade, Ralph B.	12-4-30	8	4-30-52
Speth, Robert J.	6-13-30	10	3-22-60
Spicer, Darrel W.	9-25-39		5-8-62
Tilson, Robert T.	11-24-39		4-11-61
**Tilson, William O.	12-17-37		10-31-62
*Trainque, Norman L.	10-1-31		8-22-62
Vroom, Howard H.	7-14-34		5-17-61
**West, Thomas D.	12-13-38		10-29-62
Wilcox, Donald R.	1-8-31		3-14-62
Williams, Hubert G.	2-29-28	8	5-22-53
Worton, Wm. J.	11-15-36		8-17-62
**Yeske, Verle D.	1-14-41		10-22-62

*Laid off due to lack of work 2-8-63

**Laid off due to lack of work 2-15-63

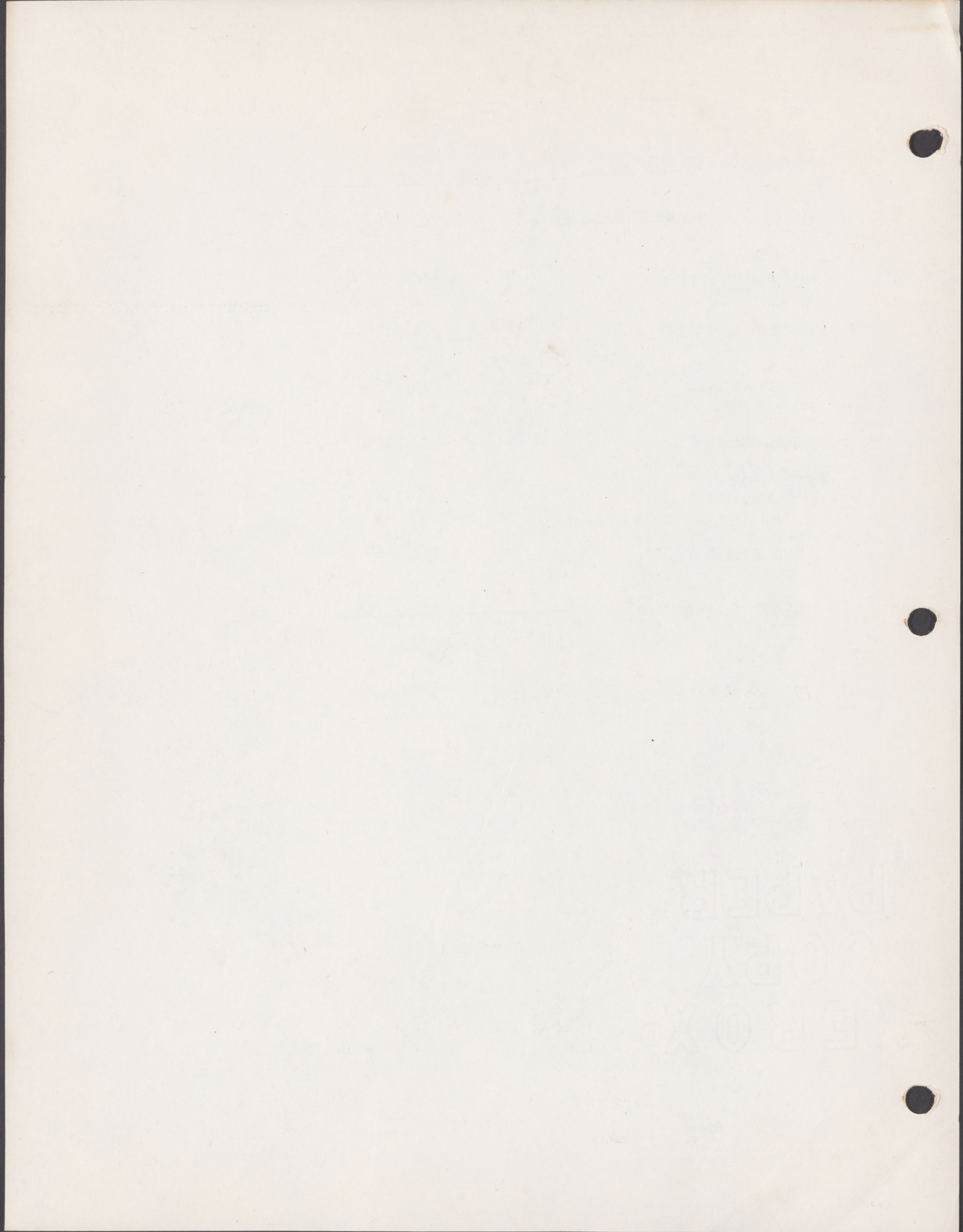


EMPLOYEES WHO WILL BE 65 SOON

File - Sup. Book

NAME	DATE OF AGE 65
<u>ALEX J. JOHNSON</u>	<u>11/29/1961</u>
<u>JACK F. NIGHTINGALE</u>	<u>8/10/1962</u>
<u>ELMORE F. JORDAN</u>	<u>9/3/1963</u>
<u>LYLE L. MARSHALL</u>	<u>11/30/1964</u>
<u>WILLIAM A. DARKE</u>	<u>9/12/1964</u>
<u>CLYDE E. MEARS</u>	<u>8/6/1964</u>
<u>MANUEL E. SANTOS</u>	<u>9/27/1964</u>
<u>LUIS MARIEIRO</u>	<u>9/6/1965</u>
<u>JAXON STONE</u>	<u>1/1/1965</u>
<u>CHESTER P. WRIGHT</u>	<u>4/29/1965</u>

H. Davis ✓



Engineering

WAGE ROLL - ADDRESS LIST

February 26, 1963

<u>A</u>		
Abernathy, Derronda G.	3064 Baywood Lane, San Pablo,	Be. 2-3378
Adams, John Jr.	621 Quinan Street, Pinole	Pl. 8-3766
Allen, Charles R.	164 Wooten Ave, Walnut Creek	Ye. 5-0176
Amos, Alden S.	818 Cumberland Dr., Pleasant Hill	Ye. 5-7783
Anderson, Jim N.	#1 Pinole Street, Hercules	Pl. 8-2661
Anderson, Laurel J.	2791 Mayfair Ave., Concord	Mu. 5-0593
Atchison, Albert A.	1 Park Street, Hercules	Pl. 8-3094
Audibert, Stanley F.	778 Yuba Ave., Richmond	Be. 2-0251
 <u>B</u>		
Balthazar, Aldei J.	1500 San Pablo Ave., Pinole	Pl. 8-2217
Banducci, Wm.	2599 Henry Ave., Pinole	Pl. 8-3791
Banish, Joseph H.	1686 Marlesta Road, Pinole	Pl. 8-2187
Barber, Carlos D.	68 Delta Drive, Pittsburg	Gl. 8-4240
Barnes, Jessie	1313 - 6th Street, Rodeo	Rodeo 2462
Barnhardt, Edgar	481 Sheryl Dr., San Pablo	Ca. 3-8348
Bell, Robert S.	#3 Bacchus Ave., Hercules	Pl. 8-3376
Bellah, Byron J.	2421 McBryde Ave., Richmond	Be. 2-1295
Bender, Raymond	345 Summit Drive, Pinole	Pl. 8-1689
Bers, Henry S.	2400 Dana St., Berkeley	Th. 3-9906
Bigelow, Boyd W.	2707 Colusa St., Pinole	Pl. 8-3626
Birdwell, Tommy R.	5 Santa Fe Ave., Hercules	Pl. 8-2653
Boeger, Antone H.	Rt. 3, Box 502 Martinez	Ac. 8-3647
Bollinger, William H.	14 Santa Fe Avenue, Hercules	Pl. 8-3371
Broberg, Gordon T.	1864 Green Island Rd., Vallejo	Mi. 4-2159
Burton, Elmo	1312 Chanslor Ave., Richmond	Be. 2-0902
Button, Harold R.	893 - 4th Avenue, Pinole	Pl. 8-2484

Bel. 2-3375	3034 Baywood Lane, San Pablo	Belmont, Raymond H.
Pl. 8-3765	631 Graham Street, Pinole	Blount, John W.
Yes. 2-0176	161 Woodson Ave., Walnut Creek	Blount, Charles R.
Yes. 2-1787	618 Conestoga Dr., Pleasant Hill	Brown, Alfred S.
Pl. 8-3767	41 Pinole Street, Hercules	Anderson, Jim W.
Mo. 2-072	2791 Mayfield Ave., Concord	Anderson, James J.
Pl. 8-3034	1 Ford Street, Hercules	Anderson, Albert A.
Bel. 2-072	775 Ross Ave., Richmond	Anderson, Stanley F.
Pl. 8-3037	1500 San Pablo Ave., Pinole	Anderson, Albert J.
Pl. 8-3767	2599 Kelly Ave., Pinole	Anderson, Wm.
Pl. 8-3767	1635 San Pablo Ave., Pinole	Anderson, Joseph R.
Pl. 8-3767	68 Bates Drive, Richmond	Baker, George E.
Bel. 2-072	1813 - 6th Street, Richmond	Baker, Joseph
Pl. 8-3767	481 Shady Dr., San Pablo	Barnes, Robert
Pl. 8-3767	43 Jackson Ave., Hercules	Barnes, Robert
Bel. 2-072	2621 Mayfield Ave., Richmond	Barnes, Robert
Pl. 8-3767	347 Grand Drive, Pinole	Barnes, Robert
Pl. 8-3767	2600 Davis St., Berkeley	Barnes, Robert
Pl. 8-3767	2707 Colman St., Pinole	Barnes, Robert
Pl. 8-3767	7 Santa Fe Ave., Hercules	Barnes, Robert
Pl. 8-3767	1813 - 6th Street, Richmond	Barnes, Robert
Pl. 8-3767	14 Santa Fe Avenue, Hercules	Barnes, Robert
Pl. 8-3767	1801 Grand Island St., Vallejo	Barnes, Robert
Pl. 8-3767	1813 - 6th Street, Richmond	Barnes, Robert
Pl. 8-3767	333 - 1st Avenue, Pinole	Barnes, Robert

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C

Carbonneau, Wayne O.	6209 Tehama Avenue, Richmond	La. 4-0479
Ceselini, Valentino H.	Pinole Valley Road, Pinole	Pl. 8-3718
Chandler, Willard C.	3410 Grasswood Dr. Richmond	Ca. 3-4941
Chisum, Clarence B.	#1 Bacchus Ave., Hercules	Pl. 8-3439
Christensen, Mark C.	1349 Lacey Court, Concord	Mu. 2-4681 (N)
Clark, Clarence C.	626 Pinole Valley Rd., Pinole	Pl. 8-0649
Clark, John Q.	Bldg. I-7, Apt. 578, Rodeo	Rodeo 4823
Classick, John A.	5640 Castro Road, San Pablo	Ca. 3-3436
Clemons, Dale E.	928 Appian Way, Pinole	Pl. 8-0825
Clute, Kenneth D.	10 Hercules Avenue, Hercules	Pl. 8-3355
Coberly, Floyd E.	K-13, 695 Bayo Vista Rodeo	Rodeo 4148
Comer, John W.	637 - 22nd Street, Richmond	Be. 4-6467
Crofoot, Raymond A.	551 Lake Avenue, Rodeo	Rodeo 2039

D

Daniel, William W.	2838 LaSalle Ave., Concord	Mu. 2-0958
Darrah, Eldon E.	4197 Rita Drive, Martinez	Ac. 8-0284
Davis, Fred E.	12 Hercules Ave., Hercules	Pl. 8-3098
Davis, Hugh T.	2565 San Pablo Ave., Pinole	Pl. 8-2782
Davis, J. Wendell	747 Sunnyview St., Pinole	Pl. 8-2394
Dalligatti, Ernest J. Jr.	1635 Lombard Street, San Francisco	Pr. 5-4797
Denning, Alonzo B.	549 Loring Ave, Crockett	
Devore, Robert F.	3068 - 12th Street, San Pablo	Be. 3-3331 (N)
Dodson, Henry S.	135 Rodeo Ave., Rodeo	Rodeo 2849
Doidge, W. C.	6 Bay Street, Hercules	Pl. 8-1041
Douglas, Ervin H.	2977 - 12th Street, San Pablo	
Drake, Samuel G.	12 Santa Fe Avenue, Hercules	Pl. 8-3465

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E

Eastman, Richard	1140 Arreba Street, Martinez	Ac. 8-6624
Eattock, Frank C. Jr.	323 Sharon Avenue, Rodeo	Rodeo 2042
Elliott, Edwin E.	2604 Sheffield Ave., San Pablo	Be. 3-3578
Engel, Ernest R.	5530 Alaska Drive, Concord	Mu. 2-4850
Engel, Paul P.	Apt. #1, Adams Court, Pinole	Pl. 8-1686
Engel, Walter J.	16 Park Street, Hercules	Pl. 8-3450
Enos, Antone T.	2379 Prune Street, Pinole	Pl. 8-3375
Epley, Ray	854 E. Meadow Dr., Pinole	Pl. 8-3630

F

Farris, Raymond C.	2782 Rollingwood Dr., San Pablo	Ca. 3-6652
Faylor, Dale A.	506 Tenant Avenue, Pinole	Pl. 8-0289
Flosi, John R.	5118 Clinton Ave., Richmond	Be. 4-6419
Flynn, John L.	#8 Dunham Avenue, Hercules	Pl. 8-2229
Flynn, Robert H.	21 Denise Drive, San Pablo	Ca. 3-7063
Foskett, Marcus	2235 Orleans Dr. Pinole	Pl. 8-3782
Francis, Jesse	332 - 35th Street, Richmond	Be. 3-7628
Francis, Joe	2614 Vale Road, San Pablo	Be. 5-0312
Francis, Louis A.	707 Smith Ave., Pinole	Pl. 8-3645

G

Gery, Eugene F.	271 Calais Drive, Pinole	Pl. 8-2210
Gist, Joseph J.	2361 Rumrill Road, San Pablo	Be. 3-6503
Goforth, Bridger, L.	#9 Bacchus Ave., Hercules	Pl. 8-1410
Goforth, Clarence A.	784 Rincon Road, El Sobrante	Ca. 3-7184
Goodman, Bill	780 Alvarez Ave., Pinole	
Goularte, Paul A.	Ellerhorst Avenue, Pinole	Pl. 8-3502

Ac. 8-0025	1160 Avenue Street, Nashville	Robert, Robert
Nodes 8045	123 Sharon Avenue, Katoa	Robert, Frank T. Jr.
De. 3-3578	2504 Brentfield Ave., San Pablo	Robert, Edwin E.
Ma. 2-1650	2530 Alameda Drive, Concord	Robert, Robert R.
Pl. 8-1000	4444, Adams Court, Placita	Robert, Paul R.
Pl. 8-1450	15 East Street, Nashville	Robert, Walter J.
Pl. 8-175	2515 Irvine Street, Placita	Robert, Robert E.
Pl. 8-3050	850 E. Madison Dr., Placita	Robert, Ray
De. 3-0050	2785 Hollingwood Dr., San Pablo	Robert, Raymond C.
Pl. 8-0050	208 Vermont Avenue, Placita	Robert, John A.
De. 2-0010	2118 Clinton Ave., Richmond	Robert, John H.
Pl. 8-0020	48 Jackson Avenue, Nashville	Robert, John H.
Ca. 3-1000	21 Dunlap Drive, San Pablo	Robert, Robert H.
Pl. 8-1000	2235 Orleans Dr., Placita	Robert, Robert
De. 2-1000	312 - 13th Street, Richmond	Robert, Louis
De. 2-0020	2614 Villa Road, San Pablo	Robert, Joe
Pl. 8-3000	707 24th Ave., Placita	Robert, Louis A.
Pl. 8-0020	271 Calata Drive, Placita	Robert, Eugene H.
De. 3-0020	2301 Kendall Road, San Pablo	Robert, Joseph J.
Pl. 8-0020	45 Madison Ave., Nashville	Robert, Robert E.
Ca. 3-1100	184 Lincoln Road, El Estero	Robert, Clarence A.
Pl. 8-3000	100 Alameda Ave., Placita	Robert, Bill
Pl. 8-3000	2118 Vermont Avenue, Placita	Robert, Paul A.

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G

Gozzano, Louis	963 Valley Avenue, Pinole	Pl. 8-3370
Gregan, John F.	2772 Greenwood Drive, San Pablo	Be. 5-6955
Gregan, Stephen N.	858 Solano Court, El Sobrante	Ca. 3-5972

H

Hadfield, George W.	33 Hollywood Ave, Vallejo	Mi. 4-7371 (N)
Hanelly, James F.	685 Santa Maria Road, El Sobrante	Ca. 3-7992
Hansen, William W.	1670 San Pablo Ave., Pinole	Pl. 8-3664
Hart, Ronald G.	9 Simo Street, Alamo	Ye. 4-7420
Hazen, Herman	1401 Barrett Ave., Richmond	
Headington, Ronald B.	3151 - 11th Street, San Pablo	Be. 4-6154
Hedberg, Verne E.	5908 Bay View Ave., Richmond	Be. 2-0697
Hegeman, Lester R.	#12 Dunham Avenue, Hercules	Pl. 8-3483
Hensley, Billy F.	1314 Folsom Street, San Pablo	Be. 3-7354
Heuser, John R. Jr.	207 Lake Street, Rodeo	Rodeo 2114
Higley, Marvin F.	1670 Marlesta Road, Pinole	Pl. 8-3496
Hoover, James T.	2833 - 13th Street, San Pablo	Be. 5-3439
Hoover, Kenneth B.	13 Park Street, Hercules	Pl. 8-2480
Hoover, Pat	1429 San Pablo Avenue, Pinole	Pl. 8-9054
Howard, Don C.	2556 Fraser Court, Pinole	Pl. 8-1317
Howell, Vernon E.	288 Calais Drive, Pinole	Pl. 8-2627
Humphries, Sherel D.	772 San Pablo Ave., Rodeo	
Hunt, Richard E.	835 A Street, Crockett	Crockett 1412
Hunt, Ruben F.	633-1/2 Rodeo Ave, Rodeo	Rodeo 2542

FL. 8-3370	603 Valley Avenue, Hobbs	Boorman, John
FL. 8-3371	1712 Broadway Drive, San Pablo	Boorman, John
Cal. 8-3372	625 Colma Court, El Sobrante	Boorman, Arthur H.
Cal. 8-3373	33 Hollywood Ave, Vallejo	Boorman, George W.
Cal. 8-3374	685 Santa Anita Road, El Sobrante	Boorman, James E.
FL. 8-3375	1670 San Pablo Ave., Pinole	Boorman, William W.
FL. 8-3376	9 Elm Street, Alameda	Boorman, Ronald G.
Cal. 8-3377	1401 Barrett Ave., Richmond	Boorman, Herman
Cal. 8-3378	3151 - 11th Street, San Pablo	Boorman, Ronald B.
Cal. 8-3379	2508 Bay View Ave., Richmond	Boorman, Vernon E.
FL. 8-3380	412 Dunham Avenue, Hercules	Boorman, Lester H.
Cal. 8-3381	1314 Tolman Street, San Pablo	Boorman, Billy T.
Cal. 8-3382	207 Lake Street, Hobbs	Boorman, John H. Jr.
FL. 8-3383	1870 Norcross Road, Pinole	Boorman, Harold E.
Cal. 8-3384	2825 - 15th Street, San Pablo	Boorman, James T.
FL. 8-3385	13 Park Street, Hercules	Boorman, Kenneth B.
FL. 8-3386	1429 San Pablo Avenue, Pinole	Boorman, Pat
FL. 8-3387	2525 Fraser Court, Pinole	Boorman, Don C.
FL. 8-3388	288 Calista Drive, Pinole	Boorman, Vernon E.
FL. 8-3389	175 San Pablo Ave., Hobbs	Boorman, Gerald D.
Cal. 8-3390	635 A Street, Crockett	Boorman, Richard E.
Cal. 8-3391	633-1/2 Hobbs Ave., Hobbs	Boorman, Robert T.

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I

Ingram, Carl H.	10 Bay Street, Hercules	Pl. 8-2039
Ingram, Joseph A.	607 Key Blvd. Richmond	Be. 2-0468

J

Jadryev, Peter M.	915 - 2nd Avenue, Pinole	Pl. 8-3447
Jensen, Dell W.	1409 - 3rd Avenue, Oakland	
Johnson, Melvin I.	109 Baxter Street, Vallejo	Mia. 4-2329
Johnson, Walter	1572 Sutherland Court, Concord.	Mu. 2-5583
Jones, James R.	400 Minert Road, Concord	Mu. 5-6309

K

Kearns, Frank	#2 Bay Street, Hercules	Pl. 8-3693
Kelly, Willard J.	2602 East Olivera Road, Concord	Mu. 2-2316
Kelm, David C.	3129 Fitzpatrick St., Concord	Mu. 2-4889
King, Billy F.	1950 Solano Way, Concord	Mu. 2-1310
Kirk, David D.	120 Rodeo Avenue, Rodeo	
Knight, Russell L.	1371 Manor Drive, San Pablo	Be. 5-8758
Kreitzer, Henry	3121 Garvin Ave., Richmond	Be. 4-0462
Krummen, Arthur B.	4171 Valley Ave., Martinez	Ac. 8-1541

L

Lane, John C.	749 John Street, Pinole	Pl. 8-2525
Langford, Herman W.	7 Skelly Ave., Hercules	Pl. 8-3438
Lasnini, Vernon E.	2408 Paloma Street, Pinole	Pl. 8-2562
Lawson, Raymond	553 East 12th Street, Pittsburg	He. 2-6041

Mr. S-5032	10 Bay Street, Haverhill	Ingalls, Carl H.
Mr. S-5033	607 Key Blvd., Richmond	Ingalls, Joseph A.

Mr. S-5034	915 - 2nd Avenue, Pinola	Jackson, Peter M.
Mr. S-5035	1109 - 3rd Avenue, Oakland	Jackson, Dora V.
Mr. S-5036	109 Market Street, Vallejo	Johnson, Melvin E.
Mr. S-5037	1575 Commonwealth Court, Concord	Johnson, Walter
Mr. S-5038	100 Market Road, Concord	Jones, James E.

Mr. S-5039	40 Bay Street, Haverhill	Kearney, Frank
Mr. S-5040	2802 West Oliver Road, Concord	Kelly, William F.
Mr. S-5041	1129 Pittsburg St., Concord	Kell, David G.
Mr. S-5042	1370 Bolinas Way, Concord	Kelly, Billy F.
Mr. S-5043	120 Linden Avenue, Hobbs	Kirk, David H.
Mr. S-5044	1375 Market Street, San Pablo	Knight, Russell J.
Mr. S-5045	3121 Garvin Ave., Richmond	Kramer, Henry
Mr. S-5046	1171 Valley Ave., Haverhill	Kramer, Arthur B.

Mr. S-5047	708 John Street, Pinola	Lace, John C.
Mr. S-5048	7 Shelly Ave., Haverhill	Lambert, Herman W.
Mr. S-5049	2808 Polson Street, Pinola	Lambert, Vernon E.
Mr. S-5050	571 West 12th Street, Pittsburg	Lambert, Raymond

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L

Leighty, George	825 E. Meadow Ave., Pinole	Pl. 8-2094
Lenz, Charles E.	8 Skelly Ave., Hercules	Pl. 8-2669
Leverone, Louis Jr.	1 Hercules Avenue, Hercules	Pl. 8-3823
Lewis, Robert H.	2547 Downer Street, Pinole	Pl. 8-3522
Lincoln, Joseph W.	5550 Indiana Drive, Concord	Mu. 2-1997
Livermore, Elroy A.	7 Bacchus Ave., Hercules	Pl. 8-2342
Louis, John S.	545 - 34th Street, Richmond	Be. 5-0429

Mc

McCall, Daniel T.	21 Park Street, Hercules	Pl. 8-3780
McCormick, Jimmy T.	#5 Bacchus Ave., Hercules	Pl. 8-0278
McGillivray, Nigel B.	13900 San Pablo Ave., Space 17, San Pablo	Be. 2-8931
McIntyre, Orville R.	1422 California St., San Pablo	Be. 5-6965
McMaster, William E.	404 So. 16th St., Richmond	Be. 5-4210

M

Maderia, Leo	5405 Hessel Ave., Sebastopol	Va. 3-3594
Maderos, Frank	890 Pine Street, Pinole	Pl. 8-3459
Mahoney, Thomas P.	2805 Avon Ave., Concord	Mu. 6-4755
Maier, Emil	703 Mariposa Street, Rodeo	Rodeo 2292
Marieiro, Louis M.	1139 Valley Avenue, Pinole	Pl. 8-1321
Mariuzza, Lindow	871 Valley Avenue, Pinole	Pl. 8-3096
Marshall, Lyle L.	11 Park Street, Hercules	Pl. 8-3592
Masterson, Charles E.	827 Betty Avenue, Pinole	Pl. 8-2763
Mathis, Harry E.	701 San Pablo Ave., Apt. 2, Rodeo	
Mayher, Steven C.	1930 Emeric Ave., San Pablo	Be. 3-4029
Mears, Clyde R.	1539 Nob Hill Ave., Pinole	Pl. 8-3740
Miller, Dallas R.	585 Parker Ave., Rodeo	Rodeo 4157

PL 8-2094	825 E. Meadow Ave., Lincoln	Leahy, George
PL 8-2559	8 Brady Ave., Lincoln	Leahy, Charles E.
PL 8-3253	1 Harmon Avenue, Harmon	Leavens, Louis R.
PL 8-3222	2541 Downer Street, Lincoln	Leahy, Robert H.
PL 8-1997	2250 Indiana Drive, Concord	Leahy, Joseph W.
PL 8-2342	7 Beacon Ave., Lincoln	Leavens, Elroy A.
PL 8-0459	245 - 34th Street, Richmond	Leahy, John S.

PL 8-3780	51 Park Street, Harmon	McCall, Daniel T.
PL 8-0258	45 Beacon Ave., Lincoln	McCarthy, Jimmy T.
PL 8-0931	1300 San Pablo Ave., San Pablo	McCarthy, Michael B.
PL 8-0258	1422 California St., San Pablo	McCarthy, Gerald R.
PL 8-0210	404 So. 16th St., Richmond	McCarthy, William E.

PL 8-3504	2405 Kansas Ave., Sebastopol	McCarthy, Leo
PL 8-3479	890 Pine Street, Lincoln	McCarthy, Frank
PL 8-4773	2605 Avon Ave., Concord	McCarthy, Thomas R.
PL 8-0232	703 Kentucky Street, Concord	McCarthy, Paul
PL 8-1321	1139 Valley Avenue, Lincoln	McCarthy, Louis A.
PL 8-3036	671 Valley Avenue, Lincoln	McCarthy, Andrew
PL 8-3522	11 Park Street, Lincoln	McCarthy, Kyle L.
PL 8-0253	821 Brady Avenue, Lincoln	McCarthy, Charles E.
PL 8-0253	701 San Pablo Ave., Apt. 2, Concord	McCarthy, Larry E.
PL 8-0253	1030 Santa Fe Ave., San Pablo	McCarthy, Steven G.
PL 8-3740	1530 Bob Hill Ave., Lincoln	McCarthy, Clyde H.
PL 8-0253	507 Park Ave., Concord	McCarthy, William E.

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M

Minster, Jerald H.	2909 Concord Blvd., Concord	Ma. 2-8088
Moore, John E.	McEwen Road, DeMartin Ranch, Port Costa, P.O.Box 182, Rodeo	Crockett 1175
Morrison, Dewey C.	16 Santa Fe Ave., Hercules	Pl. 8-1189

N

Nelson, Woodrow T.	4826 Appian Way, El Sobrante	Ca. 3-1099
Nethercott, Wilford H.	1549 Marlesta Road, Pinole	Pl. 8-2652
Newell, Lonnie L.	2471 Leslie Avenue, Martinez	Ac. 8-5089
Nilsen, Sidney	119 DeNormandie Way, Martinez	Ac. 8-1787
Nilsson, Johan A.	947 - 4th Ave. Pinole	Pl. 8-3816
Normali, Alfonso G.	1023 - 1st Ave., Crockett	Crockett 535

O

Olds, Wade B	4900 Pinole Valley Rd., Pinole	Pl. 8-3498
Osborn, Burnell C.	1418 Carlton Drive, Concord	Mt. 2-9007
Ostlund, Lemar A.	15 Hercules Ave., Hercules	Pl. 8-0121
Ousley, Darold L.	1210 Rheem Ave., Richmond	Be. 3-5019
Owen, Richard C.	10 Amarillo Drive, Vallejo	Mt. 2-2896

P

Pavon, Manuel J.	11 Santa Fe Ave., Hercules	Pl. 8-3520
Payne, John W.	15 Santa Fe Ave., Hercules	Pl. 8-3384
Pearce, Bobby W.	#6 Dunham Ave., Hercules	Pl. 8-2234
Pedersen, Arthur P.	780 John Street, Pinole	Pl. 8-3594
Pedersen, Lars P.	828 Magnolia Lane, Pinole	Pl. 8-3767

Mr. S-8083	2909 Concord Blvd., Concord	Minister, Gerald H.
Greeneville 1175	1175 Green Road, Delmar, Delaware	Moore, John E.
PL. S-1189	16 Santa Fe Ave., Hercules	Morrison, Davey C.

CA. S-1099	1586 Appleton Way, El Sobrante	Nelson, William T.
PL. S-2552	1542 Westside Road, Pinole	Nichols, Wilford H.
Ac. S-5083	2671 Leslie Avenue, Martinez	Neville, Lennie J.
Ac. S-1787	119 Delmarville Way, Martinez	Niles, Sidney
PL. S-3816	947 - 4th Ave., Pinole	Nissner, John A.
Greeneville 539	1023 - 1st Ave., Crockett	Norwell, Alton C.

PL. S-3458	4900 Pinole Valley Rd., Pinole	Otto, Wade B.
Mr. S-2907	1418 Carlton Drive, Concord	Ogden, Kenneth C.
PL. S-0121	13 Hercules Ave., Hercules	Ostrow, Lenny A.
Mr. S-2019	1200 Kean Ave., Richmond	Owens, Harold J.
Mr. S-2896	10 Amalfi Drive, Vallejo	Owen, Richard C.

PL. S-3520	11 Santa Fe Ave., Hercules	Parson, Samuel J.
PL. S-3452	15 Santa Fe Ave., Hercules	Payne, John W.
PL. S-2529	10 Jackson Ave., Hercules	Peacock, Bobby W.
PL. S-3504	180 John Street, Pinole	Redman, Arthur W.
PL. S-3767	808 Regatta Lane, Pinole	Robinson, Lora E.

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P

Pennell, Joseph G.	18847 Lomita Ave., Sonoma	We. 8-8253
Pereira, Lawrence L.	2 Pinole Street, Hercules	Pl. 8-3401
Pfau, Raymond J.	1327 Richmond St., El Cerrito	Be. 2-2145
Pieterick, Raymond J.	621 Fern Ave., Pinole	Pl. 8-2245
Platt, William S.	7605 Oxbow Lane, Pleasanton	Va. 8-2617
Poe, Paul	1779 Landana Dr., Concord	Mu. 5-7127
Poppleton, George A.	1227 Temple Drive, Pacheco	Mu. 6-0475
Porter, Carl F.	2886 Andrade Ave., Richmond	Be. 5-2742
Potts, Frank B. Jr.	1120 - 4th Street, Rodeo	Rodeo 2231
Pratt, Robert L.	111 - 9th Street, Vallejo	Mi. 4-1367
Pullins, George W.	1138 Medanos Street, Antioch	Pl. 7-6319

R

Rakes, Kenneth E.	C-51- 161 Bayo Vista, Rodeo	Rodeo 2209 (N)
Randall, Edwin E.	750 - 2nd Street, Rodeo	Rodeo 4573
Rard, Nestor H.	2572 Henry Ave., Pinole	Pl. 8-3009
Rawson, Leonard C.	419 San Pablo Ave., Rodeo	Rodeo 4065
Redmond, William C.	1724-A Bissell Ave., Richmond	Be. 5-0670
Reeder, Roger D.	270 Zoe Court, Pinole	Pl. 8-2026
Reynolds, Eugene W.	2237 Oakvale Road, Walnut Creek	Ye. 4-3859
Rieger, Elmer F.	1795 Solano Way, Concord	Mu. 5-0854
Roay, Arthur P.	1264 Vine St., Martinez	Ac. 8-4189
Robinson, Russell L.	30 Harbor Drive, Pittsburg	Gl. 8-1118
Roedel, John R.	Bldg. M-11, Apt. 811, Rodeo	Rodeo 2390
Roehm, Alvin R.	100 Price Lane, Pleasant Hill	Mu. 2-7233
Rollino, John L.	#15 Park Street, Hercules	Pl. 8-2885
Rowan, Lawrence H.	4321 Chelsea Way, Concord	Mu. 2-4720

Mr. 8-8253	18947 Lantana Ave., Bonanza	Fennell, Joseph G.
Mr. 8-3401	2 Pinole Street, Hercules	Fennell, Lawrence L.
Mr. 8-2145	1327 Richmond St., El Cerrito	Fennell, Raymond J.
Mr. 8-2245	621 Fern Ave., Pinole	Fennell, Raymond J.
Mr. 8-2017	705 Oakwood Lane, Pleasanton	Fennell, William S.
Mr. 8-1127	1719 Leland Dr., Concord	Fennell, Paul
Mr. 8-0475	1227 Temple Drive, Richmond	Fennell, George A.
Mr. 8-2742	2086 Antelope Ave., Richmond	Fennell, Carl F.
Mr. 8-2741	1120 - 4th Street, Redwood	Fennell, Frank J. Jr.
Mr. 8-1107	111 - 9th Street, Vallejo	Fennell, Robert L.
Mr. 8-2319	1138 Madison Street, Antioch	Fennell, George W.

Mr. 8-2009 (F)	0-21-1st Bay Vista, Redwood	Fennell, Kenneth A.
Mr. 8-2713	750 - 2nd Street, Redwood	Fennell, Edwin E.
Mr. 8-3009	2573 Henry Ave., Pinole	Fennell, Victor E.
Mr. 8-2025	419 San Pablo Ave., Redwood	Fennell, Leonard C.
Mr. 8-0070	1724-A Alameda Ave., Richmond	Fennell, William C.
Mr. 8-2025	270 San Pablo Ave., Pinole	Fennell, Roger D.
Mr. 8-2025	2237 Oakdale Road, Walnut Creek	Fennell, Eugene V.
Mr. 8-0824	1755 Bolinas Way, Concord	Fennell, Elmer F.
Mr. 8-1159	1204 Vine St., Martinez	Fennell, Arthur F.
Mr. 8-1158	30 Harbor Drive, Pittsburg	Fennell, Russell L.
Mr. 8-2320	1144 - 11th Ave., Redwood	Fennell, John E.
Mr. 8-1233	100 Price Lane, Pleasant Hill	Fennell, Alvin E.
Mr. 8-2025	715 Park Street, Hercules	Fennell, John J.
Mr. 8-2720	4221 Chatham Way, Concord	Fennell, Lawrence E.

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S

Sandford, John R.	1939 Costa Ave., Richmond	Be. 3-2314
Santaella, John A.	690 Rincon Rd., El Sobrante	Ca. 3-3958
Santaella, Tony	142 Dunham Ave., Hercules	Pl. 8-3734
Sassone, John N.	200 Buena Vista Dr., Pinole	Pl. 8-3307
Scarsella, Harry A.	5 Pinole Street, Hercules	Pl. 8-2249
Scoggins, Ernest F.	5737 Clinton Ave., Richmond	Be. 3-3987
Seale, James H.	3334 Euclid Street, Concord	Mu. 6-3288
Shaffer, James H.	1871 Granada Drive, Concord	Mu. 6-2336
Sill, Fred A.	878 - 36th Street, Richmond	Be. 4-4683
Silva, Gerald L.	5618 Van Fleet Ave., Richmond	La. 4-8925
Silva, William A.	949 - 3rd Ave., Pinole	Pl. 8-3373
Silveira, James R.	745 Tormey Ave., Rodeo	Rodeo 2982
Silveria, Tonie	5886 Morpeth St., Oakland	Ol. 5-2339
Simon, Walter	860 Sunnyview Dr., Pinole	Pl. 8-2468
Simpson, George D.	1627 Oregon St., Berkeley	Th. 1-0473
Slade, Gene	415 Ladera Dr., Vallejo	Mi. 4-7371
Slade, Ralph B.	1073 Grant St., Vallejo	Mi. 4-7982
Smallwood, William O.	#1 Bay Street, Hercules	Pl. 8-3387
Smith, Leon J.	2688 Rollingwood Dr., San Pablo	Be. 2-6712
Sparks, Joe	9 Hercules Ave., Hercules	Pl. 8-2609
Speth, Robert J.	1749 San Pablo Ave., Pinole	
Spicar, Darrel W.	2756 Argyll St., Concord	Ye. 5-2364
Stadig, Otto A.	456 - 17th St., Apt. H, Richmond	Be. 5-3912
Stanworth, Thirl W.	2161 Plum St., Pinole	Pl. 8-2933
Sterneberg, Paul V.	452 Sonoma Ave., Rodeo	Rodeo 2694
Stone, Jaxon S.	P. O. Box 41, Hercules	-
Stout, Jackson L.	317 Vista Way, Martinez,	Ac. 8-3988
Stromstedt, Stanley O.	825 Betty Ave., Pinole	Pl. 8-3563

Bel. 3-5314	1939 Conner Ave., Richmond	Sanborn, John H.
Cal. 3-3558	650 Wilson Rd., El Sobrante	Sanborn, John A.
Pl. 8-3734	182 Dunham Ave., Hercules	Sanborn, Tony
Pl. 8-3707	200 Lewis Vista Dr., Pinole	Sanborn, John H.
Pl. 8-2349	2 Pinole Street, Hercules	Sanborn, Harry A.
Bel. 3-3987	2737 Clinton Ave., Richmond	Sanborn, Ernest F.
Mr. 8-3525	3335 Franklin Street, Concord	Sanborn, James H.
Mr. 8-2336	1871 Granada Drive, Concord	Sanborn, James H.
Bel. 3-4683	878 - 30th Street, Richmond	Sanborn, Fred A.
La. 4-8925	2618 Van Fleet Ave., Richmond	Sanborn, Gerald L.
Pl. 8-3713	942 - 3rd Ave., Pinole	Sanborn, William A.
Robert 2008	745 Torrey Ave., Redwood	Sanborn, James H.
Or. 2-2339	2886 Marquette St., Oakland	Sanborn, Tom
Pl. 8-2468	650 Sunnyview Dr., Pinole	Sanborn, Walter
Pl. 1-0473	1687 Oregon St., Berkeley	Sanborn, George D.
Mr. 4-7371	415 Ladner Dr., Vallejo	Sanborn, Gene
Mr. 4-7982	1073 Grand St., Vallejo	Sanborn, Ralph B.
Pl. 8-3387	41 Bay Street, Hercules	Sanborn, William O.
Bel. 6-8711	2688 Bollingwood Dr., San Pablo	Sanborn, Jack J.
Pl. 8-2609	9 Hercules Ave., Hercules	Sanborn, Joe
	1749 San Pablo Ave., Pinole	Sanborn, Robert J.
Ys. 2-2384	2756 Argyle St., Concord	Sanborn, James W.
Bel. 2-3912	456 - 17th St., Apt. H, Richmond	Sanborn, Otto A.
Pl. 8-2013	2161 Pines St., Pinole	Sanborn, Frank W.
Robert 2004	452 Sonoma Ave., Redwood	Sanborn, Paul V.
	P.O. Box 41, Hercules	Sanborn, James B.
Ad. 8-1288	317 Vista Way, Martinez	Sanborn, Jackson L.
Pl. 8-3563	284 Rocky Ave., Pinole	Sanborn, Stanley O.

Feb. 26, 1963

S

Stuckmann, Henry C.

734 Ruth Dr., Pleasant Hill

Mu. 2-4484

T

Taylor, Arthur E.

831 Pinole Valley Road, Pinole

Pl. 8-3820

Taylor, James D.

#8 Pinole Street, Hercules

Pl. 8-2237

Taylor, Vernon D.

4940 Laurel Drive, Concord

Mu. 5-6017

Thatcher, Wilbur

17 Santa Fe Ave., Hercules

Pl. 8-2338

Thomas, Fred V.

4500 Hilltop Dr., El Sobrante

Ca. 3-8734

Thomason, Horace G.

C-37, Apt. 224, Bayo Vista, Rodeo

Rodeo 2705

Tilson, Robert T.

770 San Pablo Ave., Rodeo

Rodeo 4081

Turner, Clarence E.

#3 Park Street, Hercules

Pl. 8-3033

V

Variz, Joseph J.

808 - 4th Street, Rodeo

Rodeo 2492

Vroom, Howard H.

2923 Brook Way, San Pablo

Be. 4-4192

W

Waford, Floyd W.

8 Hercules Ave, Hercules

Pl. 8-3388

Walker, James W.

2826 - 12th St., San Pablo

Be. 3-7433

Watkins, Richard S.

419 E. Lind St., Port Chicago

Gl. 8-2225

Wells, Olie T.

#6 Hercules Ave., Hercules

Pl. 8-3067

West, Francis T.

17 Park St., Hercules

Pl. 8-3490

Wilcox, Donald R.

1824 Alturas Dr., Concord

Mu. 2-8389

Wilcox, Thomas D.

46 San Michele Dr., Concord

Mu. 2-0498

Williams, Hubert B.

2302 LaSalle Dr., Pinole

Pl. 8-3652

Mr. 2-4484

134 Bush St., Pleasant Hill

Thompson, Henry C.

Pl. 8-3830

831 Pinole Valley Road, Pinole

Taylor, Arthur E.

Pl. 8-3831

48 Pinole Street, Hercules

Taylor, James D.

Mr. 2-6017

4900 Laurel Drive, Concord

Taylor, Vernon D.

Pl. 8-3738

17 Santa Fe Ave., Hercules

Thatcher, Wilbur

Co. 1-8154

4500 Hilltop Dr., El Sobrante

Thurman, Fred V.

Phone 2105

6-37, Ave. 28, Bay Vista, Hobbs

Thurston, Bruce D.

Phone 2081

170 San Pablo Ave., Hobbs

Tilley, Robert F.

Pl. 8-3073

43 Park Street, Hercules

Towner, Clarence E.

Phone 2085

808 - 4th Street, Hobbs

Wade, Joseph J.

Mr. 1-4118

2023 Brock Way, San Pablo

Wagon, Howard H.

Pl. 8-3388

8 Hercules Ave., Hercules

Walker, Floyd W.

Mr. 3-7413

2826 - 12th St., San Pablo

Walker, James W.

Pl. 8-3389

419 E. Lind St., Port Chicago

Walker, Richard E.

Pl. 8-3087

46 Hercules Ave., Hercules

Wells, Otto F.

Pl. 8-3400

14 Park St., Hercules

West, Francis T.

Mr. 8-8333

1884 Alameda Dr., Concord

Wetzel, Donald R.

Mr. 2-0098

45 San Michele Dr., Concord

Wetzel, Thomas D.

Pl. 8-3739

2302 Laskie Dr., Pinole

Williams, Robert E.

February 26, 1963

<u>W</u>		
Willis, Norman O.	221 Janet Lane, Concord	Mu. 2-2878
Wilson, Leonard E.	534 - 13th Street, Richmond	Be. 3-7773 (N)
Wise, George H.	2823 Rheem Ave., Richmond	Be. 5-4697
Witman, Leander	1471 Drake Way, San Pablo	Be. 2-0812
Worton, William J. Jr.	1400 Contra Costa Blvd. #19 Pleasant Hill	Mu. 6-4523
Wyatt, Noble W.	343 Napa Street, Rodeo	Rodeo 2378
Wyatt, Virgil W.	5504 Indiana Dr., Concord	Mu. 5-3875

6/9/61

SALARY ROLL

Accomazzo, Shirley L.	2553 San Pablo Ave.,	Pinole, Calif.
Bailey, Helen H.	5941 Harbor View Dr.	Richmond, Calif.
Bartholomew, Clyde L.	946 Oakwood Ave.	Vallejo, Calif.
Bartholomew, Frederick E.	318 Vallejo	Rodeo, Calif.
Bentz, Dan	366 Sunset Court	Pinole, Calif.
Bowers, Everett C.	12 Skelly Ave.	Hercules, Calif.
Canning, Robert J.		
Caswell, Chester	2295 Orleans Dr.	Pinole, Calif.
Chinneck, O. J.	20 Rancho Alhambra	Martinez, Calif.
Christfield, John G.	17 Hercules Ave.	Hercules, Calif.
Collins, Jack Lee	1 Kings Ave.	Hercules, Calif.
Collins, Lovell Lee	6 Pinole St.	Hercules, Calif.
Conrady, John H.	3101 Barrett Ave.	Richmond, Calif.
Cowan, Ethel	1-A Hercules Ave.	Hercules, Calif.
Dempsey, Clarence	507 Sonoma Ave.	Rodeo, Calif.
Devos, Gladys G.	584 Summit Dr.	Pinole, Calif.
Elipper, John E.	3088 Estates Ave.	Pinole, Calif.
Fairbanks, Edward J.	311 Paloma Ct.	Martinez, Calif.
Fraser, John A.	9 Pinole St.	Hercules, Calif.
Gegan, Ambrose F., Jr.	14 Dunham Ave.	Hercules, Calif.
Gordon, James	861 Pine St.	Pinole, Calif.
Gowdy, Donald M., Jr.	2 Kings Ave.	Hercules, Calif.
Gray, Edwin D.	4 Hercules Ave.	Hercules, Calif.
Green, Genevieve F.	3 Railroad Ave.	Hercules, Calif.
Green, Harold A.	3 Railroad Ave.	Hercules, Calif.
Hagan, Jerry H.	12 Bay St.	Hercules, Calif.
Hamrahan, Donald P.	3721 Brookside Dr.	Martinez, Calif.
Hansen, Lois	1670 San Pablo Ave.	Pinole, Calif.
Hedrick, H. Kyle	4 Kings Ave.	Hercules, Calif.
Higgins, Orval	13 Hercules Ave.	Hercules, Calif.
Hepper, Jr., J. E.	4 Pinole St.	Hercules, Calif.
Howell, Kimbark, W. W.	5435 Degnan Dr.	Martinez, Calif.
Hulen, Harry	915 Avis Dr.	El Cerrito, Calif.
Ingalls, Lawrence E.	9 Park St.	Hercules, Calif.
Jefferis, Allen H.	348 Jerome Ave.	Piedmont, Calif.
Kendall, DeWayne H.	202 Kendall Court	Martinez, Calif.
	Muir Oaks	
Kendall, Nellie J.	202 Kendall Court	Martinez, Calif.
	Muir Oaks	
Kennedy, Louis W.	3144 Fairmede Dr.	Richmond, Calif.
Klen, Thomas J.		
Keeferl, Clement J.		

REAR PORT

Pinole, Calif.
Richmond, Calif.
Vallejo, Calif.
Rodeo, Calif.
Pinole, Calif.
Hercules, Calif.

2225 San Pablo Ave.
2251 Harbor View Dr.
226 Oakwood Ave.
228 Valiente
226 Sunset Court
12 Skelly Ave.

Robertson, Shirley L.
Baker, Helen W.
Bartolomeo, Clyde L.
Bartolomeo, Frederick B.
Baker, Dan
Bower, Everett G.

Pinole, Calif.
Martinez, Calif.
Hercules, Calif.
Hercules, Calif.
Hercules, Calif.
Richmond, Calif.
Hercules, Calif.

2225 Orleans Dr.
20 Hancock Alameda
17 Hercules Ave.
1 Kings Ave.
6 Pinole St.
2101 Bartlett Ave.
1-A Hercules Ave.

Gennings, Robert J.
Gavett, Chester
Guthrie, O. J.
Gustafson, John G.
Gallins, Jack Lee
Gallins, Lowell Lee
Gentry, John H.
Govan, Kénel

Rodeo, Calif.
Pinole, Calif.

207 Sonoma Ave.
284 Summit Dr.

Dempsey, Clarence
Dove, Gladys G.

Pinole, Calif.
Martinez, Calif.
Hercules, Calif.

2088 Webster Ave.
211 Paloma Ct.
2 Pinole St.

Wipert, John H.
Walsh, Edward J.
Tracy, John A.

Hercules, Calif.
Pinole, Calif.
Hercules, Calif.
Hercules, Calif.
Hercules, Calif.
Hercules, Calif.

14 Dunham Ave.
861 Pine St.
2 Kings Ave.
4 Hercules Ave.
2 Railroad Ave.
2 Railroad Ave.

Gogarty, Andrew T., Jr.
Gordon, James
Gowdy, Donald M., Jr.
Gray, Edwin D.
Green, Genevieve T.
Green, Harold A.

Hercules, Calif.
Martinez, Calif.
Pinole, Calif.
Hercules, Calif.
Hercules, Calif.
Hercules, Calif.
Martinez, Calif.
El Cerrito, Calif.

12 Bay St.
2721 Frookside Dr.
1670 San Pablo Ave.
4 Kings Ave.
13 Hercules Ave.
4 Pinole St.
2222 Deegan Dr.
212 Ave Dr.

Kagan, Jerry H.
Kantner, Donald P.
Kansen, Lois
Kestick, H. Kyle
Kilgus, Orval
Kipper, J. J.
Kovall, Kimark, W. W.
Kulon, Harry

Hercules, Calif.

2 Park St.

Ingalls, Lawrence H.

Richmond, Calif.

248 Torone Ave.

Jeffries, Allen H.

Martinez, Calif.

202 Kendall Court
Muir Oaks

Kendall, Dewayne H.

Martinez, Calif.

202 Kendall Court
Muir Oaks

Kendall, Helise J.

Richmond, Calif.

2144 Talmadge Dr.

Kennedy, Louis W.

Kirk, Thomas J.

Kirk, Thomas J.

Lease, Phyllis
Leverone, Lucille
Logar, Richard
Lucia, Mary
Ludwig, Edwin S.
Lynch, Jr., H. M.

Manchester, Andrew H.

Miller, Albert A.
Moses, Ruth E.

Nettleton, Purvis M.
Nicholson, Barney

Pacropis, Donald R.
Pamplin, Shirley M.
Peltrock, Frederick H.

Reck, Pietro
Rodrigues, Manuel
Ryan, Jr., John A.

Sausaman, Chester
Scotto, George J.
Sprague, Dana F.
Staples, George E.
Sutton, Laura Mae

Theilen, Lou
Trombley, Mary Louise

Weiss, C. P.
Wells, Orris B.
Westfall, Alvah D.
Whippen, Marlen G.
White, Kenneth B.

Willoughby, Herman L.

730 Jones Ave.
1 Hercules Ave.
2832 Meyers Rd.
2615 San Pablo Ave.
160 Railroad Ave.
4827 Meadowbrook Dr.

1605 San Pablo Ave.
0191 Arriba

Talley Way
1400 Carlson Blvd.

741 E. First St.
2575 Brian Rd.
7 Park St.

Railroad Ave.
2 Skelly Ave.
4136 Calaveras Dr.

717 Pomona Ave.
5 Park St.
1 Talley Way
6 Santa Fe Ave.
6 Kings Ave.

2750 Gaynor Ave.
1801 Shasta St.

8 Santa Fe Ave.
19 Hercules Ave.
11 Pinole St.
9 Santa Fe Ave.
128 Webster St.

Pinole, Calif.
Hercules, Calif.
Richmond, Calif.
Pinole, Calif.
Hercules, Calif.
Richmond, Calif.

Pinole, Calif.
Martinez, Calif.

Hercules, Calif.
Richmond, Calif.

Rodeo, Calif.
San Pablo, Calif.
Hercules, Calif.

Hercules, Calif.
Hercules, Calif.
Concord, Calif.

El Cerrito, Calif.
Hercules, Calif.
Hercules, Calif.
Hercules, Calif.
Hercules, Calif.

Richmond, Calif.
Richmond, Calif.

Hercules, Calif.
Hercules, Calif.
Hercules, Calif.
Hercules, Calif.
Vallejo, Calif.

S - 33
 P - 24
 W 39
 93

102

Nettleton

Revised 9/3/63

Frank Kearns	1-H	2 Bay St., Hercules	\$18.00
P John Ryan	2-H	4 Bay St.	20.00
Wm. C. Doidge	3-H	6 Bay St.	18.00
— Bernard Schilz	4-H	8 Bay St.	18.00
Carl Ingram	5-H	10 Bay St.	20.00
S M. O. Blythe	6-H	12 Bay St.	20.00
P Wm. E. Brown	7-H	14 Bay St.	20.00
Jim N. Anderson	8-H	1 Pinole St.	18.00
Lawrence Pereira	9-H	2 Pinole St.	18.00
S Ralph Williams	10-H	3 Pinole St.	18.00
S James E. Hopper	11-H	4 Pinole St.	18.00
Harry Scarsella	12-H	5 Pinole St.	18.00
S Lowell Collins	13-H	6 Pinole St.	19.00
● C. A. Lemley	14-H	7 Pinole St.	18.00
James Taylor	15-H	8 Pinole St.	18.00
S John Fraser	16-H	9 Pinole St.	21.00
S A. D. Westfall	17-H	11 Pinole St.	21.00
S M. Lynch	18-H	13 Pinole St.	21.00
S Geo. E. Staples	19-H	6 Santa Fe Ave.	24.00
P Kenneth McIntire	20-H	7 Santa Fe Ave.	23.00
S C. P. Weiss	21-H	8 Santa Fe Ave.	23.00
S H. Willoughby	22-H	9 Santa Fe Ave.	23.00
P W. H. Jackson	23-H	10 Santa Fe Ave.	25.00
Manuel J. Paven	24-H	11 Santa Fe Ave.	21.00
Sam Drake	25-H	12 Santa Fe Ave.	21.00
P Fred L. O'Neill	26-H	13 Santa Fe Ave.	23.00
● Wm. Bollinger	27-H	14 Santa Fe Ave.	23.00
John Payne	28-H	15 Santa Fe Ave.	25.00
Dewey Morrison	29-H	16 Santa Fe Ave.	23.00

1-H	1 Bay St.	18.00	John Taylor
2-H	2 Bay St.	20.00	John Taylor
3-H	3 Bay St.	18.00	John Taylor
4-H	4 Bay St.	18.00	John Taylor
5-H	5 Bay St.	20.00	John Taylor
6-H	6 Bay St.	20.00	John Taylor
7-H	7 Bay St.	20.00	John Taylor
8-H	8 Bay St.	18.00	John Taylor
9-H	9 Bay St.	18.00	John Taylor
10-H	10 Bay St.	18.00	John Taylor
11-H	11 Bay St.	18.00	John Taylor
12-H	12 Bay St.	18.00	John Taylor
13-H	13 Bay St.	18.00	John Taylor
14-H	14 Bay St.	18.00	John Taylor
15-H	15 Bay St.	18.00	John Taylor
16-H	16 Bay St.	18.00	John Taylor
17-H	17 Bay St.	18.00	John Taylor
18-H	18 Bay St.	18.00	John Taylor
19-H	19 Bay St.	18.00	John Taylor
20-H	20 Bay St.	18.00	John Taylor
21-H	21 Bay St.	18.00	John Taylor
22-H	22 Bay St.	18.00	John Taylor
23-H	23 Bay St.	18.00	John Taylor
24-H	24 Bay St.	18.00	John Taylor
25-H	25 Bay St.	18.00	John Taylor
26-H	26 Bay St.	18.00	John Taylor
27-H	27 Bay St.	18.00	John Taylor
28-H	28 Bay St.	18.00	John Taylor
29-H	29 Bay St.	18.00	John Taylor
30-H	30 Bay St.	18.00	John Taylor
31-H	31 Bay St.	18.00	John Taylor
32-H	32 Bay St.	18.00	John Taylor
33-H	33 Bay St.	18.00	John Taylor
34-H	34 Bay St.	18.00	John Taylor
35-H	35 Bay St.	18.00	John Taylor
36-H	36 Bay St.	18.00	John Taylor
37-H	37 Bay St.	18.00	John Taylor
38-H	38 Bay St.	18.00	John Taylor
39-H	39 Bay St.	18.00	John Taylor
40-H	40 Bay St.	18.00	John Taylor
41-H	41 Bay St.	18.00	John Taylor
42-H	42 Bay St.	18.00	John Taylor
43-H	43 Bay St.	18.00	John Taylor
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45-H	45 Bay St.	18.00	John Taylor
46-H	46 Bay St.	18.00	John Taylor
47-H	47 Bay St.	18.00	John Taylor
48-H	48 Bay St.	18.00	John Taylor
49-H	49 Bay St.	18.00	John Taylor
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61-H	61 Bay St.	18.00	John Taylor
62-H	62 Bay St.	18.00	John Taylor
63-H	63 Bay St.	18.00	John Taylor
64-H	64 Bay St.	18.00	John Taylor
65-H	65 Bay St.	18.00	John Taylor
66-H	66 Bay St.	18.00	John Taylor
67-H	67 Bay St.	18.00	John Taylor
68-H	68 Bay St.	18.00	John Taylor
69-H	69 Bay St.	18.00	John Taylor
70-H	70 Bay St.	18.00	John Taylor
71-H	71 Bay St.	18.00	John Taylor
72-H	72 Bay St.	18.00	John Taylor
73-H	73 Bay St.	18.00	John Taylor
74-H	74 Bay St.	18.00	John Taylor
75-H	75 Bay St.	18.00	John Taylor
76-H	76 Bay St.	18.00	John Taylor
77-H	77 Bay St.	18.00	John Taylor
78-H	78 Bay St.	18.00	John Taylor
79-H	79 Bay St.	18.00	John Taylor
80-H	80 Bay St.	18.00	John Taylor
81-H	81 Bay St.	18.00	John Taylor
82-H	82 Bay St.	18.00	John Taylor
83-H	83 Bay St.	18.00	John Taylor
84-H	84 Bay St.	18.00	John Taylor
85-H	85 Bay St.	18.00	John Taylor
86-H	86 Bay St.	18.00	John Taylor
87-H	87 Bay St.	18.00	John Taylor
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89-H	89 Bay St.	18.00	John Taylor
90-H	90 Bay St.	18.00	John Taylor
91-H	91 Bay St.	18.00	John Taylor
92-H	92 Bay St.	18.00	John Taylor
93-H	93 Bay St.	18.00	John Taylor
94-H	94 Bay St.	18.00	John Taylor
95-H	95 Bay St.	18.00	John Taylor
96-H	96 Bay St.	18.00	John Taylor
97-H	97 Bay St.	18.00	John Taylor
98-H	98 Bay St.	18.00	John Taylor
99-H	99 Bay St.	18.00	John Taylor
100-H	100 Bay St.	18.00	John Taylor

W. Thatcher	30-H	17 Santa Fe Ave., Hercules	\$23.00
A. Atchison	31-H	1 Park St.	21.00
C. E. Turner	32-H	3 Park St.	21.00
5 Geo. J. Scotto, Jr.	33-H	5 Park St.	23.00
5 Fred Peltrock	34-H	7 Park St.	21.00
5 Jack L. Collins	35-H	9 Park St.	23.00
Lyle Marshall	36-H	11 Park St.	22.00
Kenneth Hoover	37-H	13 Park St.	22.00
P Roxie Dixon	38-H	14 Park St.	20.00
John Rollino	39-H	15 Park St.	22.00
Walter Engel	40-H	16 Park St.	21.00
Francis T. West	41-H	17 Park St.	22.00
P Mrs. J. Buckley	42-H	19 Park St.	22.00
• Dan Mc Call	43-H	21 Park St.	22.00
5 E. D. Gray	44-H	4 Hercules Ave.	23.00
5 O. T. Wells	45-H	6 Hercules Ave.	21.00
Floyd Waferd	46-H	8 Hercules Ave.	22.00
Kenneth Clute	47-H	10 Hercules Ave.	22.00
Fred Davis	48-H	12 Hercules Ave.	21.00
5 E. S. Ludwig	54-H	2 Kings Ave.	35.00
5 Gordon Hoffman	56-H	4 Kings Ave.	47.00
P Mrs. A. Lasnini	61-H	1-A Santa Fe Ave.	15.00
<u>* Prinsett</u>	62-H	1 Santa Fe Ave.	15.00
P Mrs. Stella Enos	63-H	2 Santa Fe Ave.	15.00
Elmo Burton	64-H	3 Santa Fe Ave.	15.00
P Mrs. M. Silvas	65-H	4 Santa Fe Ave.	15.00
• Tommy Birdwell	66-H	5 Santa Fe Ave.	16.00
P H. A. Green	69-H	Railroad Avenue	43.00**

**Rent to increase to \$48.00
Oct. 1, 1963

* Vacant

P Mrs. G. Randall	70-H	5 Hercules Ave., Hercules	\$15.00
P Mrs. Mary Turley	71-H	7 Hercules Ave.	15.00
P Mrs. A. Turigliatto	72-H	9 Hercules Ave. /	17.00
P Mrs. Beulah Smith	73-H	11 Hercules Ave.	17.00
P Mrs. P. Lindholm	74-H	13 Hercules Ave.	15.00
Lemar Ostlund	75-H	15 Hercules Ave.	15.00
— Pinole Lodge F&AM	102-H	Railroad Ave.	30.00
William Smallwood	127-H	1 Bay St.	15.00
P Mrs. Anna Weiss	128-H	3 Bay St.	15.00
P Mrs. Minnie Cullen	129-H	5 Bay St.	15.00
S H. R. McKenney, Jr.	130-H	7 Bay St.	17.00
S Gordon Lowe	132-H	1 Talley Way	55.00
S P. M. Nettleton	133-H	4 Talley Way	46.00
S John A. Purvis	135-H	6 Kings Ave.	40.00
S Ethel Cowan	136-H	1-A Hercules Ave.	23.00
Louis Leverone, Jr.	137-H	1 Hercules Ave.	19.00
Joe Sparks	138-H	3 Hercules Ave.	20.00
S George Appleton	139-H	17 Hercules Ave.	25.00
S Orris B. Wells	140-H	19 Hercules Ave.	21.00
P Mrs. Irene Hansen	141-H	2 Dunham Ave.	19.00
Tony Santaella	142-H	4 Dunham Ave.	19.00
Bobby Pearce	143-H	6 Dunham Ave.	18.00
S <u>Ken Purvis</u>	144-H	8 Dunham Ave.	20.00
S Paul E. Beaupre	145-H	10 Dunham Ave.	21.00
Lester Hegeman	146-H	12 Dunham Ave.	19.00
S A. F. Gegan	147-H	14 Dunham Ave.	24.00
S James Gordon	148-H	2 Skelly Ave.	19.00
P Mrs. Wm. Collins	149-H	4 Skelly Ave.	18.00

18.00	100-H	4 Skelly Ave.	Mr. W. Collins
19.00	108-H	2 Skelly Ave.	Mr. Gordon
25.00	107-H	14 Danham Ave.	A. T. Gegan
19.00	106-H	12 Danham Ave.	Lester Hegeman
21.00	105-H	10 Danham Ave.	Paul E. Houghton
20.00	104-H	8 Danham Ave.	
18.00	103-H	6 Danham Ave.	Bobby Forster
19.00	102-H	4 Danham Ave.	Tony Santafina
19.00	101-H	2 Danham Ave.	Mr. Irene Hansen
21.00	100-H	19 Hecolles Ave.	Orville D. Wells
25.00	139-H	17 Hecolles Ave.	George Aschelson
20.00	138-H	3 Hecolles Ave.	Joe Sparks
19.00	137-H	1 Hecolles Ave.	James Devore, Jr.
23.00	136-H	1-A Hecolles Ave.	Michael Cowan
40.00	135-H	6 Kings Ave.	Mr. A. Farver
46.00	133-H	4 Talley Way	P. M. Heltzer
22.00	132-H	1 Talley Way	Donald Rowe
17.00	130-H	7 Bay St.	Mr. McKenney, Jr.
15.00	129-H	5 Bay St.	Miss Minnie Collins
15.00	128-H	3 Bay St.	Mr. Anne Welles
15.00	127-H	1 Bay St.	William Smallwood
30.00	102-H	Ballfield Ave.	James Lodge, Jr.
15.00	75-H	15 Hecolles Ave.	James Coffey
15.00	74-H	13 Hecolles Ave.	Mr. F. Lasholm
17.00	73-H	11 Hecolles Ave.	Mr. Beniah Smith
17.00	72-H	9 Hecolles Ave.	Mr. A. Tarliff
15.00	71-H	7 Hecolles Ave.	Mr. Mary Smith
15.00	70-H	5 Hecolles Ave.	Mr. J. Hennell

William Rote	150-H	6 Skelly Ave., Hercules	\$20.00
Herman Langford	151-H	7 Skelly Ave.	19.00
Charles Lenz	152-H	8 Skelly Ave.	19.00
Joseph Souza	153-H	10 Skelly Ave.	21.00
E. C. Bowers	154-H	12 Skelly Ave.	25.00
Clarence Chisum	155-H	1 Bacchus Ave.	20.00
Robert S. Bell	156-H	3 Bacchus Ave.	20.00
Jimmy McCormick	157-H	5 Bacchus Ave.	20.00
Elroy Livermore	158-H	7 Bacchus Ave.	18.00
Bridger Goforth	159-H	9 Bacchus Ave.	20.00
Pietro Reck	160-H	Railroad Ave.	40.00
Hercules Post Office		Railroad Ave.	15.00

William Latta	150-H	6 Skelly Ave., Hercules	\$20.00
Herbert Bagford	151-H	7 Skelly Ave.	19.00
Charles Lenz	152-H	8 Skelly Ave.	19.00
Joseph Sousa	153-H	10 Skelly Ave.	21.00
W. G. Hovore	154-H	12 Skelly Ave.	25.00
Clarence Chisum	155-H	1 Bacchus Ave.	20.00
Robert S. Bell	156-H	3 Bacchus Ave.	20.00
Jimmy McCormick	157-H	5 Bacchus Ave.	20.00
Elroy Livermore	158-H	7 Bacchus Ave.	18.00
Erigger Gelford	159-H	9 Bacchus Ave.	20.00
Pietro Beck	160-H	Railroad Ave.	40.00
Hercules Post Office		Railroad Ave.	15.00

MACHINE AND AUTO

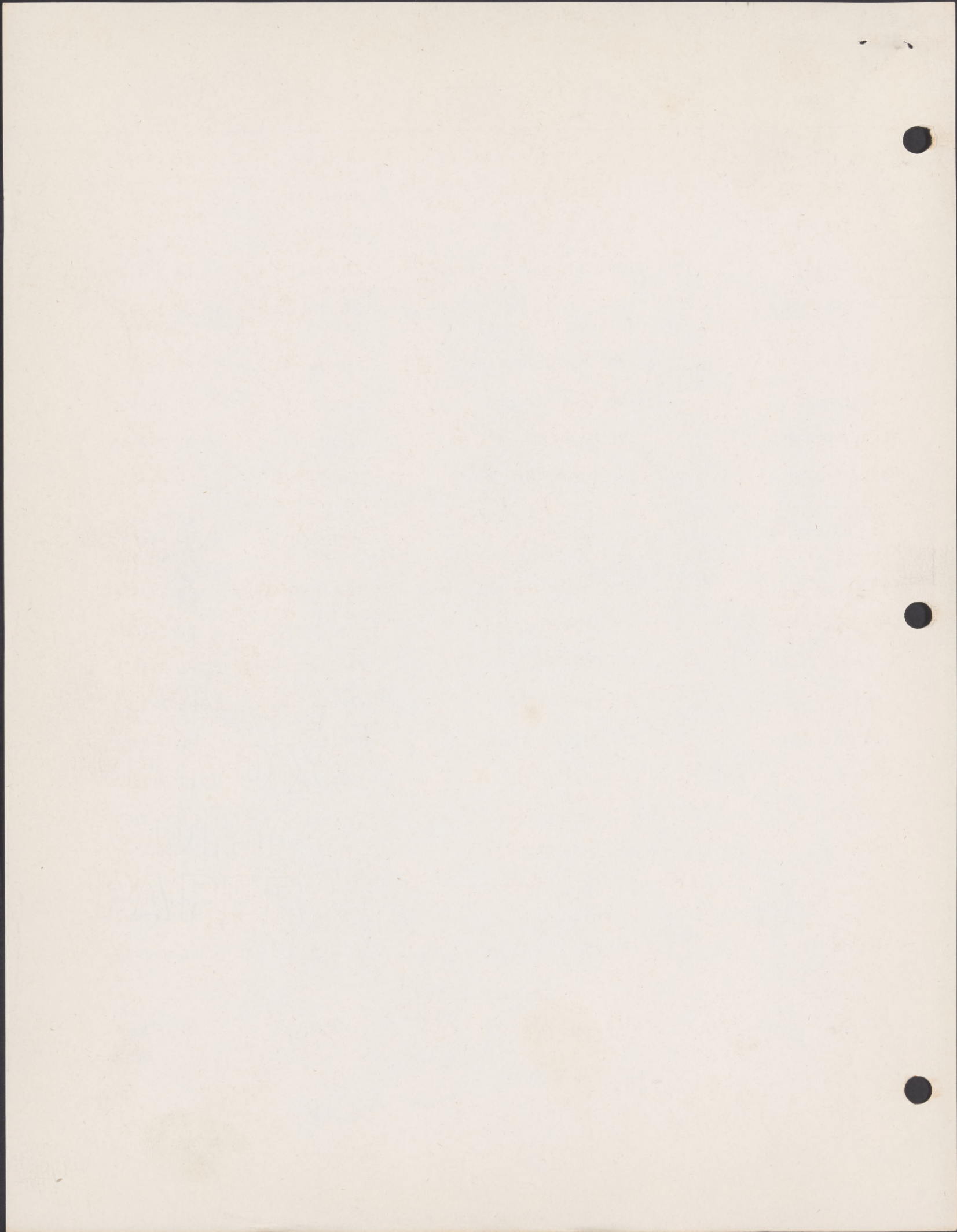
NAME	ADDRESS		PHONE
Bellah, B. J.	2421 Mc Bryde Ave.	Richmond	BE 2-1295
Bollinger, Wm.	14 Santa Fe Ave.	Hercules	PL 8-3371
Ceselini, V. H.	Valley Road	Pinole	PL 8-3718
Clark, C.C.	2241 Buena Vista Ave.	Alameda	LA 3-5173
Classick, John	5640 Castro Rd. (Sherwood Forest)	San Pablo	CA 3-3436
Enos, A. T.	2379 Prune St.	Pinole	PL 8-3375
Epley, Ray	854 East Meadow	Pinole	PL 8-3630
Gery, Eugene	271 Calais Dr.	Pinole	PL 8-2210
Goularte, Paul	Ellerhorst St.	Pinole	PL 8-3502
Hansen, W. W.	1670 San Pablo Ave.	Pinole	PL 8-3664
Hoover, Kenneth	13 Park St.	Hercules	PL 8-2480
Kreitzer, H.	3121 Garvin Ave.	Richmond	BE 4-0462
Langford, H.	7 Skelly Ave.	Hercules	PL 8-3438
Lenz, Chas.	8 Skelly Ave.	Hercules	PL 8-2669
Maderos, Frank	890 Pine St.	Pinole	PL 8-3459
Marshall, S. R.	715 Second Ave.	Pinole	PL 8-2203
Pederson, Lars	828 Magnolia Lane	Pinole	PL 8-3767
Redmond, Wm. C.	1724-A Bissell	Richmond	BE 5-0670
Wells, O. T.	6 Hercules Ave.	Hercules	PL 8-3067

SHEET METAL

Olds, W. B.	PO Box 101	Pinole	PL 8-3498
West, F. T.	17 Park	Hercules	PL 8-3490

LEAD BURNER

Hedberg, V. E.	5908 Bayview Ave.	Richmond	BE 2-0697
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NAME	ADDRESS		PHONE
<u>ELECTRIC AND INSTRUMENT</u>			
Chisholm, V.A.	13 Pinole St.	Hercules	PL 8-3331
Clark, John	Bldg. 1-7 Apt 578	Rodeo	Rodeo 4823
Pereira, L.	2 Pinole St.	Hercules	PL 8-3401
Mariuzza, L.	871 Valley Ave.	Pinole	PL 8-3096
Roay, Art	1264 Vine	Martinez	AC 8-4189
Witman, L.	1471 Drake Way	San Pablo	BE 2-0812
Dodson, H.	4215 Nevin Ave.	Richmond	BE 3-3024
Nethercott, W.	1549 Marlesta Road	Pinole	PL 8-2652
Davis, Hugh	2565 San Pablo Ave.	Pinole	PL 8-2782

PIPE

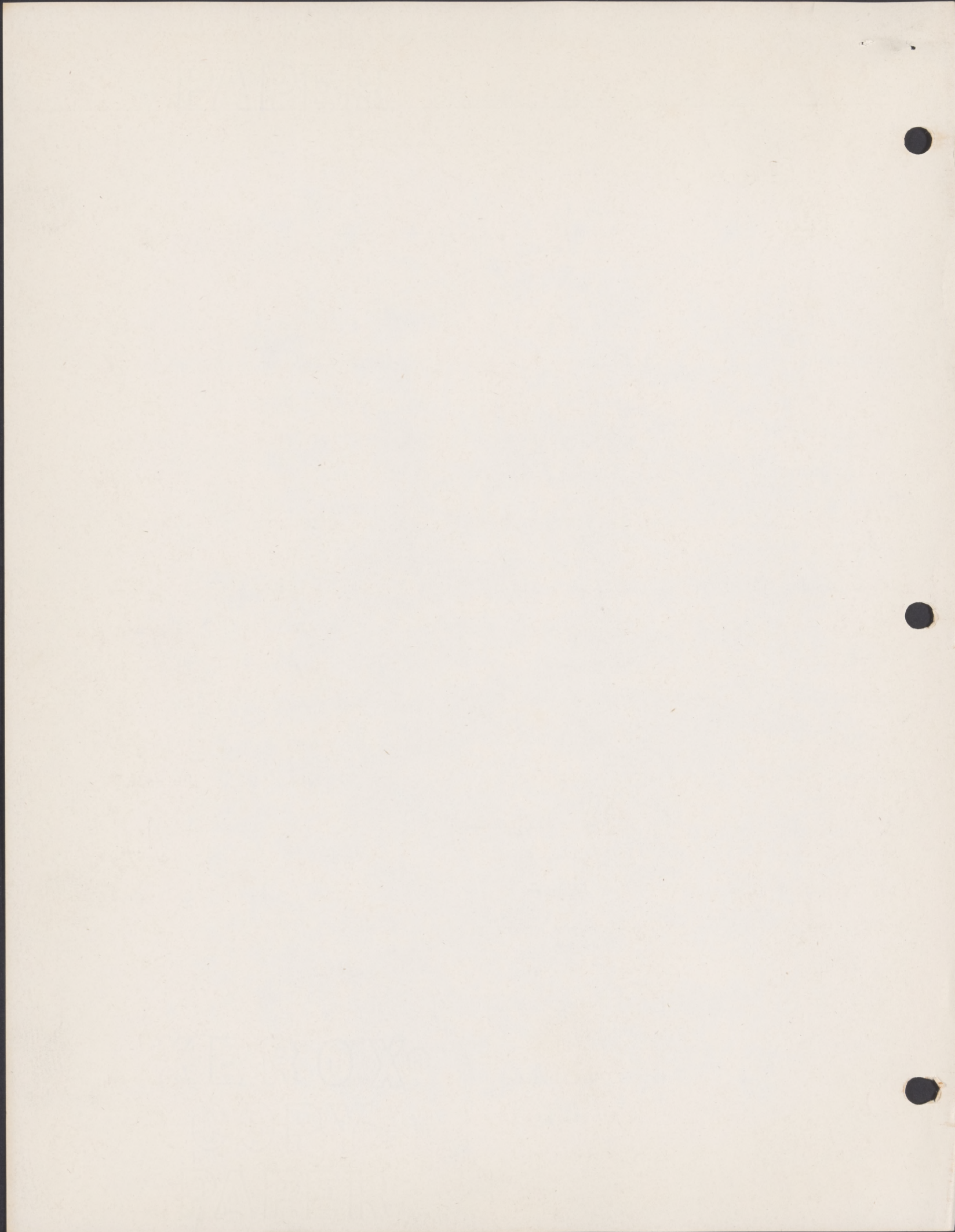
Atchison, A. A.	1 Park St.	Hercules	PL 8-3094
Howard, Don	1833 17th St.	San Pablo	BE 3-4660
McCall, Daniel	21 Park St.	Hercules	PL 8-3780
Payne, John	15 Santa Fe	Hercules	PL 8-3384
Pearce, Bobby	6 Dunham Ave.	Hercules	PL 8-2234
Sparks, Joe	9 Hercules Ave.	Hercules	PL 8-2609
Williams, Ralph	3 Pinole St.	Hercules	PL 8-3697

CARPENTER

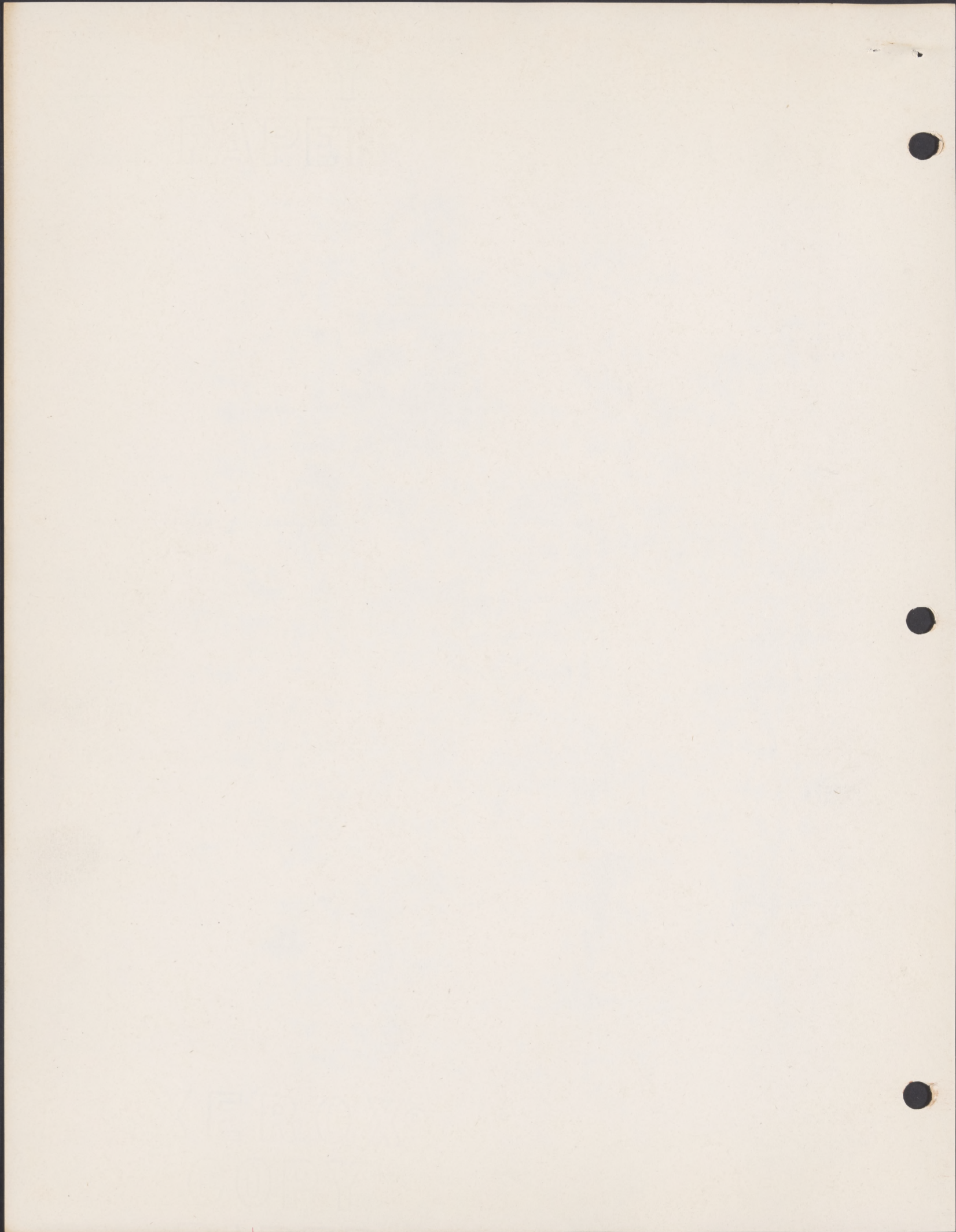
Gozzano, Louis	963 Valley Ave.	Pinole	PL 8-3370
Lewis, Robert	2547 Downer	Pinole	PL 8-3522
McGillivray, Nigel	261 Buena Vista Dr.	Pinole	PL 8-3829
Silva, Wm.	949 3rd Ave.	Pinole	PL 8-3373

WELD

Doidge, Wm.	6 Bay St.	Hercules	PL 8-1041
Ostlund, L.	202 Wellington	Concord	GL 8-2037
Scarsella, H.	5 Pinole St.	Hercules	PL 8-2249
Sassone, J.	200 Buena Vista Dr.	Pinole	PL 8-3307



NAME	ADDRESS		PHONE
<u>WELD (Cont'd)</u>			
Turner, C. E.	3 Park Ave.	Hercules	PL 8-3033
Waford, F.	8 Hercules Ave.	Hercules	PL 8-3388
Willis, N.	221 Janet Lane	Concord	MU 2-2878
<u>RIGGER & SHOP HELPERS</u>			
Chisum, C.	1 Bacchus Ave.	Hercules	PL 8-3439
Darrah, E.	4197 Rita Dr. Vine Hill	Martinez	AC 8-0284
Goforth, B.	9 Bacchus Ave.	Hercules	PL 8-1410
Johnson, A. J.	822 10th St.	Richmond	BE 2-5794
Knight, R.	1371 Manor Dr.	San Pablo	BE 5-8758
Livermore, E.A.	7 Bacchus Ave.	Hercules	PL 8-2342
<u>MASON</u>			
Farris, Raymond	2782 Rollingwood Dr.	San Pablo	BE 4-8269
Lasnini, Vernon	2408 Paloma	Pinole	PL 8-2562
Randall, E.	750 Second St.	Rodeo	Rodeo 4573
<u>PAINTER</u>			
Banducci, Wm.	8 Bay St.	Hercules	PL 8-3791
Fosket, M.	2235 Orleans Dr.	Pinole	PL 8-3782
Hazen, H.	2213 California St.	San Pablo	BE 4-6051
Rard, N.	2572 Henry St.	Pinole	PL 8-3009
Santaella, Tony	142 Dunham Ave.	Hercules	PL 8-3734



Revised: Nov. 1, 1963

UNION SENIORITY LIST

(A)

Abernathy, Derronda G.	11-7-60
Adams, , John Jr.	11-21-39
Allen, Charles R.	8-20-62
Amos, Alden S.	3-14-62
Anderson, Jim N.	6-12-44
Anderson, Laurel J.	8-30-61
Atchison, Albert A.	6-10-40
Audibert, Stanley F.	10-21-60

(B)

Balthazar, Aldei J.	10-3-50
Banducci, William	9-6-39
Banish, Joseph H.	7-5-60
Barber, Carlos D.	5-17-61
Barnes, Jessie	8-23-45
Barnett, Osmond O.	10-22-62
Barnhardt, Edgar	5-19-53
Bell, Robert S.	1-15-34
Bellah, Byron J.	8-13-42
Bender, Raymond	8-9-34
Bers, Henry S.	8-20-62
Bigelow, Boyd W.	7-22-47
Birdwell, Tommy R.	9-7-46
Boeger, Antone H.	10-5-33

Bollinger, William H.	6-23-42
Broberg, Gordon T.	5-19-49
Burton, Elmo	8-4-44
Button, Harold R.	5-7-53

(C)

Carboneau, Wayne O.	6-14-60
Ceselini, Valentino H.	12-2-22
Chandler, Willard C.	6-2-49
Chisum, Clarence B.	5-13-42
Clemons, Dale E.	8-13-59
Clark, Clarence C.	1-28-43
Clark, John Q.	4-16-52
Classick, John A.	4-11-42
Clute, Kenneth D.	7-31-39
Comer, John W.	6-2-49
Crofoot, Raymond	3-30-51
(D)	
Daniel, William W.	5-24-50
Darrah, Eldon E.	7-10-46
Davis, Fred E.	7-31-39
Hugh T. Davis	9-8-36
Davis, Walter D.	9-19-63
Denning, Alonzo B.	9-9-48
Deschaine, Francis E.	10-23-62
Dodson, Henry S.	10-21-47

UNITED STATES DEPARTMENT OF THE INTERIOR

10-2-17	Robson, Henry S.	10-2-33	Robson, Anthony H.
10-23-62	Peschman, Francis E.	9-7-62	Robson, Tony E.
9-9-18	Dennig, Alanzo B.	7-22-17	Robson, Boyd W.
9-19-62	Davis, Walter D.	8-20-62	Davis, Henry S.
9-8-30	Edg T. Davis	8-9-34	Davis, Raymond
7-31-30	Davis, Fred E.	8-13-48	Davis, Byron J.
7-10-46	Davis, Edwin E.	7-18-46	Davis, George E.
7-24-50	Davis, William V.	7-14-53	Davis, Edgar
7-30-52	Devon, Raymond	10-22-62	Devon, Donald D.
6-4-50	Cover, John W.	8-23-52	Devon, Lewis
7-11-50	Cline, Kenneth D.	8-17-52	Cline, Carlos E.
6-13-42	Clendenen, John A.	7-2-40	Clendenen, Joseph R.
8-16-50	Clark, John A.	7-6-50	Clendenen, William
7-28-52	Clark, Clarence O.	10-3-50	Clendenen, Albert F.
8-15-50	Clements, Dale E.		
5-13-50	Cline, Clarence B.		
6-8-50	Clements, William O.		
12-2-52	Cocchini, William E.	7-21-60	Cocchini, Stanley V.
8-14-60	Carbone, Wayne O.	8-30-62	Carbone, Daniel J.
	(C)	6-12-54	Carbone, Tom H.
5-7-52	Butson, Harold R.	8-14-62	Butson, Arthur E.
8-4-44	Burton, Elmo	8-20-62	Burton, William R.
5-10-40	Brubaker, Donald E.	11-22-39	Brubaker, John Jr.
5-22-50	Bollinger, William F.	12-7-50	Bollinger, Raymond V.

(D)

Doidge, William C. 8-9-35
Douglas, Ervin H. 5-27-47
Drake, Samuel G. 5-1-46

(E)

Eastman, Richard 6-8-62
Eattock, Frank C. Jr. 3-22-47
Elliott, Edwin E. 10-3-50
Engel, Ernest R. 7-20-50
Engel, Paul P. 6-22-60
Engel, Walter J. 7-19-45
Enos, Antone T. 7-29-46
Epley, Ray 12-9-47

(F)

Farris, Raymond C. 10-14-46
Faylor, Dale A. 2-19-62
Flosi, John R. 3-5-62
Flynn, Robert H. 3-30-41
Foskett, Marcus 8-30-45
Francis, Jesse 2-8-43
Francis, Joe 2-11-20
Francis, Louis A. 7-27-33

(G)

Gery, Eugene F. 4-16-47
Gist, Joseph J. 4-23-46
Goforth, Bridger L. 7-3-46
Goforth, Clarence A. 9-19-49

Goodman, Bill 8-13-52
Goularte, Paul A. 5-1-46
Gozzano, Louis 5-16-39
Gregar, John F. 4-24-61
Gregar, Stephen N. 11-14-60

(H)

Hadfield, George W. 9-17-46
Hanelly, James F. 8-26-48
Hansen, William W. Jr. 2-19-46
Hart, Ronald G. 6-8-62
Hazen, Herman 9-2-48
Headington, Ronald B. 10-10-51
Hedberg, Verne E. 9-5-34
Hegeman, David A. 9-10-63
Hegeman, Lester R. 1-17-45
Hemming, Karl M. 11-7-62
Hensley, Billy F. 6-21-60
Higley, Marvin F. 1-17-45
Hoover, James T. 5-27-47
Hoover, Kenneth B. 10-4-45
Hoover, Pat 7-22-47
Howard, Don C. 10-10-50
Howell, Vernon E. 7-13-53
Hunt, Richard E. 5-10-50
Hunt, Ruben F. 9-26-52

Goodman, Bill 8-13-52
Goulart, Paul A. 2-1-46
Gorman, Louis 2-16-39
Graham, John F. 4-24-61
Gregory, Stephen H. 12-14-60
(H)
Hendricks, George W. 9-17-46
Hendricks, James F. 8-20-46
Henson, William W. Jr. 2-12-46
Hart, Kenneth G. 8-8-62
Haven, Herman 2-2-46
Hendrixson, Kenneth B. 10-10-51
Hedberg, Varro E. 2-2-34
Hagman, David A. 2-10-63
Hegeman, Burton E. 1-17-46
Heming, Earl H. 11-7-62
Hemley, Billy F. 6-21-60
Higley, Martin F. 1-21-46
Hoover, James F. 2-27-47
Hoover, Kenneth E. 10-1-47
Hoover, Paul 1-22-47
Hornum, Don C. 10-10-50
Howell, Vernon E. 1-13-53
Hunt, Richard E. 2-10-50
Hunt, Robin E. 2-26-52

8-2-35
2-27-47
2-1-46
6-8-62
3-22-47
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1-30-41
8-30-43
2-8-43
6-11-50
7-27-33
1-16-47
4-25-46
7-3-46
6-10-49

(I)
Hodge, William C.
Hodges, Edwin E.
Hoke, Samuel C.
(J)
Jastrow, Richard
Jastrow, Frank C. Jr.
Jellison, Edwin E.
Jepson, Ernest R.
Jepson, Paul P.
Jepson, Walter J.
Jones, Arthur T.
Judy, Ray
(K)
Kantor, Raymond C.
Kaylor, Dale A.
Kearney, John H.
Klyne, Robert E.
Koschke, Thomas
Koschke, James
Koschke, Joe
Koschke, Louis A.
(L)
Lacy, Eugene F.
Lacy, Joseph A.
Lacy, Edgar J.
Lefkowitz, Clarence A.

(I)

Ingram, Carl H.	5-15-41
Ingram, Joseph A.	6-7-46

(J)

Jensen, Dell W.	9-20-61
Johnson, Melvin I.	9-12-52
Johnson, Walter	11-27-61

(K)

Kearns, Frank	8-29-38
Kelly, Willard J.	5-17-51
Kelm, David C.	6-2-52
King, Billy F.	8-27-52
Kirk, David D.	4-11-61
Knight, Russell L.	6-2-52
Kreitzer, Henry	9-8-30
Krummen, Arthur B.	6-2-49

(L)

Lane, John C.	5-8-50
Langford, Herman W.	3-19-42
Lasnini, Vernon E.	6-19-44
Lawson, Raymond L.	5-1-62
Leighty, George	11-8-46
Lenz, Charles E.	5-17-46
Lewis, Robert H.	6-11-42
Livermore, Elroy A.	5-22-46
Livingston, Charles E.	8-27-62
Louis, John S.	5-26-42

(M)

McCall, Daniel T.	10-7-35
McCormick, Jimmy T.	12-14-42
McGillivray, Nigel B.	9-2-36
McIntyre, Orville R.	4-24-53
McMaster, William E.	5-8-50
Maderia, Leo	3-24-42
Maderos, Frank	8-15-29
Mahoney, Thomas P.	3-14-62
Maier, Emil	7-16-48
Mariuzza, Lindow	10-24-45
Marshall, Lyle L.	1-22-43
Masterson, Charles E.	5-10-49
Mathis, Harry E.	8-17-62
Mayher, Steven C.	7-19-48
Mears, Clyde R.	4-10-42
Miller, Dallas R.	4-11-61
Miller, Dwain P.	10-10-62
Minster, Jerald H.	4-16-62
Montgomery, William E.	9-18-63
Moore, John E.	10-21-47
Morrison, Dewey C.	9-16-46

(N)

Nelson, Woodrow T.	9-25-45
Nethercott, Wilford H.	6-4-51
Nilsen, Sidney	6-25-47
Nilsson, Johan A.	7-20-53

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10-7-32	McCall, Daniel F.
12-14-32	McDonnell, Jimmy T.
9-2-32	McGillivray, Nigel B.
4-24-32	McIntyre, Orville B.
2-8-32	McMaster, William E.
3-24-32	McMaster, Leo
8-12-32	McMaster, Frank
3-16-32	McMurray, Thomas P.
7-16-32	McNeil, Edith
10-24-32	McNulty, James
1-22-32	McNulty, Lyle E.
2-10-32	McNulty, Charles E.
6-17-32	McNulty, Harry E.
7-12-32	McNulty, Edward C.
4-10-32	McNulty, Clyde E.
4-11-32	McNulty, Dallas E.
10-10-32	McNulty, David P.
4-16-32	McNulty, David E.
9-18-32	McNulty, William E.
10-21-32	McNulty, John E.
9-16-32	McNulty, David C.
9-22-32	McNulty, Woodrow T.
6-4-32	McNulty, Wilford H.
6-22-32	McNulty, Sidney
7-20-32	McNulty, John A.

(5)

2-12-32	McNulty, David E.
6-7-32	McNulty, David E.
2-20-32	McNulty, David E.
9-12-32	McNulty, David E.
11-27-32	McNulty, David E.
8-22-32	McNulty, David E.
2-17-32	McNulty, David E.
6-2-32	McNulty, David E.
6-27-32	McNulty, David E.
4-11-32	McNulty, David E.
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6-2-32	McNulty, David E.
2-8-32	McNulty, David E.
3-19-32	McNulty, David E.
6-19-32	McNulty, David E.
2-1-32	McNulty, David E.
11-8-32	McNulty, David E.
2-17-32	McNulty, David E.
6-11-32	McNulty, David E.
2-22-32	McNulty, David E.
6-27-32	McNulty, David E.
2-26-32	McNulty, David E.

(6)

(7)

(8)

(9)

(4)

Normali, Alfonso G.

11-7-60

(R)

(O)

Olds, Wade B.	4-24-35
Osborn, Burnell C.	4-30-62
Ostlund, Lemar A.	7-25-46
Ousley, Darrold L.	3-29-61
Owen, Richard C.	9-3-48

(P)

Pavon, Manuel J.	9-11-33
Payne, John W.	10-4-39
Pearce, Bobby W.	3-29-46
Pedersen, Arthur P.	2-14-40

Pedersen, Lars P.	9-28-36
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Pennell, Joseph G.	6-6-49
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Pereira, Lawrence L.	5-16-39
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Pfau, Raymond J.	5-20-46
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Pieterick, Raymond J.	7-13-50
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Pillion, Gerald L.	10-10-62
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Platt, William S.	3-14-62
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Poe, Paul	7-21-50
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Poppleton, George A.	9-7-39
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Porter, Carl F.	8-17-53
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Potts, Frank B. Jr.	9-3-48
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Pratt, Robert L.	8-9-56
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Pullins, George W.	5-19-61
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Rakes, Kenneth E.	11-27-61
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Randall, Edwin E.	8-6-42
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Rard, Nestor H.	6-10-41
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Rawson, Leonard C.	7-19-48
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Redmond, William C.	5-9-39
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Reeder, Roger D.	4-24-50
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Robinson, Russell L.	5-21-62
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Roedel, John R.	9-5-50
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Rollino, John L.	8-22-33
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Rowan, Lawrence H.	9-5-61
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(S)

Santaella, John A.	5-17-39
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Santaella, Tony	2-21-35
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Sassone, John W.	2-26-40
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Scarsella, Harry A.	6-13-27
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Scoggins, Ernest F.	6-10-46
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Seale, James H.	5-1-62
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Shaffer, James H.	4-9-62
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Sill, Fred A.	5-10-39
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Silva, Gerald L.	5-19-61
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Silva, William A.	1-2-46
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Silveira, James R.	9-11-52
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Silveria, Tonie	5-6-19
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Warrant, Albert H.

11-7-60

(2)

(1)

Oliver, Walter B.
Gordon, Kenneth G.
Caldwell, James A.
Coudry, Herbert J.
Cran, Richard C.

1-24-55
1-30-58
7-25-56
3-29-61
9-3-48

Kelso, Kenneth E.
Kendall, John E.
Kend, Hector E.
Keweenaw, Leonard C.
Keweenaw, William C.
Kocher, Roger D.

11-27-61
8-6-49
6-10-41
7-19-58
5-9-52
4-24-50

(2)

Hayes, Kenneth J.
Hoyne, John W.
Parker, Bobby W.
Telford, Arthur P.

9-11-33
10-4-39
3-22-46
2-14-40

Robinson, Russell L.
Rostel, John E.
Rollins, John L.
Rosen, Lawrence E.

5-21-62
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9-2-61

(3)

Robinson, James P.
Ronsell, Joseph J.
Rostel, Lawrence J.
Rosen, Raymond J.
Rosen, Raymond J.
Rosen, Raymond J.
Rosen, Raymond J.
Rosen, Raymond J.

9-28-36
6-6-49
5-16-39
9-20-46
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10-30-62
3-14-62
7-21-50

Rosen, Lawrence E.
Rosen, John A.
Rosen, John A.
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Rosen, John A.
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Rosen, John A.

5-17-39
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1-9-62
5-10-39

Rosen, Raymond J.
Rosen, Raymond J.
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Rosen, Raymond J.

7-21-50
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5-19-61

Rosen, John A.
Rosen, John A.
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Rosen, John A.
Rosen, John A.
Rosen, John A.

5-10-39
5-19-61
1-2-46
9-11-52
5-6-59

Simon, Walter	11-14-47	Turner, Clarence E.	5-21-40
Simpson, George D.	4-30-62		
Slade, Gene	6-6-49	(V)	
Slade, Ralph B.	4-30-52	Variz, Joseph J.	4-6-50
Smallwood, William O.	6-6-46	Vickery, Richard L.	9-10-63
Smith, David H.	9-25-63	Vroom, Howard H.	5-17-61
Smith, Leon J.	7-22-47	(W)	
Sparks, Joe	5-7-41	Waford, Floyd W.	7-9-43
Spath, Robert J.	3-22-60	Walker, James W.	5-15-52
Stadig, Otto A.	8-13-48	Watkins, Richard S.	2-20-57
Stafford, William T.	9-17-63	Wells, Olie T.	4-6-45
Stanworth, Thirl W.	10-9-51	West, Francis T.	10-16-39
Sterneberg, Paul V.	5-27-46	West, Gerald L.	9-17-63
Stone, Jaxon S.	6-5-47	West, Thomas D.	10-29-62
Stout, Jackson L.	7-13-50	Williams, Hubert B.	5-22-53
Stromstedt, Stanley O.	9-13-46	Williams, Joseph F. Jr.	9-18-63
Stuckmann, Henry C.	9-16-52	Williams, Milton E.	9-16-63
		Willis, Norman O.	7-23-46
(T)		Wilson, Leonard E.	9-9-48
Taylor, Arthur E.	7-8-48	Wise, George H.	9-9-48
Taylor, James D.	2-16-42	Witman, Leander	5-17-47
Taylor, Vernon D.	4-24-50	Worton, William J. Jr.	8-17-62
Thatcher, Wilbur	3-18-46	Wyatt, Noble W.	10-21-53
Thomas, Fred V.	10-23-46	Wyatt, Virgil W.	8-23-48
Thomason, Horace G.	9-18-52		
Tilson, Robert T.	4-11-61		
Tilson, William O.	10-31-62		

11-15-51	James, Walter	11-15-51	James, Walter
1-30-52	Johnson, George S.	1-30-52	Johnson, George S.
8-6-52	Cliff, John	8-6-52	Cliff, John
1-30-53	Smith, Ralph B.	1-30-53	Smith, Ralph B.
6-8-56	Goodwood, William O.	6-8-56	Goodwood, William O.
9-23-53	Smith, David H.	9-23-53	Smith, David H.
1-23-47	Smith, Isaac J.	1-23-47	Smith, Isaac J.
2-7-41	Smith, Joe	2-7-41	Smith, Joe
3-23-50	Smith, Robert J.	3-23-50	Smith, Robert J.
8-13-48	Smith, Otto A.	8-13-48	Smith, Otto A.
9-17-53	Stallard, William T.	9-17-53	Stallard, William T.
10-9-51	Stamhardt, Earl W.	10-9-51	Stamhardt, Earl W.
2-27-46	Starnesburg, Paul V.	2-27-46	Starnesburg, Paul V.
6-2-47	Stone, James S.	6-2-47	Stone, James S.
1-13-50	Stone, Jackson A.	1-13-50	Stone, Jackson A.
9-13-56	Strom, Lee, Stanley O.	9-13-56	Strom, Lee, Stanley O.
9-16-52	Stuchman, Henry C.	9-16-52	Stuchman, Henry C.
(3)			
1-6-48	Taylor, Arthur E.	1-6-48	Taylor, Arthur E.
2-16-48	Taylor, James D.	2-16-48	Taylor, James D.
4-28-50	Taylor, Vernon D.	4-28-50	Taylor, Vernon D.
3-16-50	Tindler, Wilbur	3-16-50	Tindler, Wilbur
10-23-46	Thomas, Fred V.	10-23-46	Thomas, Fred V.
9-18-52	Thompson, Vernon O.	9-18-52	Thompson, Vernon O.
4-11-61	Tilson, Robert T.	4-11-61	Tilson, Robert T.
10-11-52	Tilson, William O.	10-11-52	Tilson, William O.
8-23-49	Wyatt, Virgil W.	8-23-49	Wyatt, Virgil W.
10-21-53	Wyatt, Noble V.	10-21-53	Wyatt, Noble V.
8-11-62	Worren, William J. Jr.	8-11-62	Worren, William J. Jr.
2-17-47	Witmer, Lambert	2-17-47	Witmer, Lambert
9-9-48	Wise, George E.	9-9-48	Wise, George E.
9-9-48	Wilson, Leonard E.	9-9-48	Wilson, Leonard E.
1-23-46	Willis, Herman O.	1-23-46	Willis, Herman O.
9-16-63	Williams, Milton E.	9-16-63	Williams, Milton E.
9-18-63	Williams, Joseph E. Jr.	9-18-63	Williams, Joseph E. Jr.
5-25-53	Williams, Robert S.	5-25-53	Williams, Robert S.
10-29-52	West, Thomas B.	10-29-52	West, Thomas B.
9-13-63	West, Gerald L.	9-13-63	West, Gerald L.
10-16-52	White, Thomas T.	10-16-52	White, Thomas T.
4-8-55	Wells, Orla W.	4-8-55	Wells, Orla W.
8-20-57	Wickins, Richard B.	8-20-57	Wickins, Richard B.
2-15-52	Wicker, James W.	2-15-52	Wicker, James W.
1-9-43	Weldon, Floyd W.	1-9-43	Weldon, Floyd W.
(4)			
2-17-61	Wood, Howard E.	2-17-61	Wood, Howard E.
9-10-63	Worren, Richard L.	9-10-63	Worren, Richard L.
4-6-50	Wright, George J.	4-6-50	Wright, George J.
5-23-40	Wright, Clarence E.	5-23-40	Wright, Clarence E.

WAGE ROLL - ADDRESS LIST

December 15, 1963

A

Abernathy, Derronda G.	3064 Baywood Lane, San Pablo	223-9588
Adams, John Jr.	621 Quinan Street, Pinole	758-3766
Allen, Charles R.	164 Wooten Avenue, Walnut Creek	935-0176
Amos, Alden S.	818 Cumberland Drive, Pleasant Hill	935-7783
Anderson, Jim N.	#1 Pinole Street, Hercules	758-2661
Anderson, Laurel J.	2791 Mayfair Avenue, Concord	685-0593
Atchison, Albert A.	1 Park Street, Hercules	758-3094
Audibert, Stanley F.	778 Yuba Avenue, Richmond	232-0251

B

Balthazar, Aldei J.	1500 San Pablo Avenue, Pinole	758-2217
Banducci, William	2599 Henry Avenue, Pinole	758-3791
Banish, Joseph H.	1686 Marlesta Road, Pinole	758-2187
Barber, Carlos D.	68 Delta Drive, Pittsburg	458-4240
Barnes, Jessie	1313 - 6th Street, Rodeo	Rodeo 2462
Barnett, Osmond O.	3190 Ida Drive, Concord	685-8396
Barnhardt, Edgar	481 Sheryl Drive, San Pablo	223-8348
Bell, Robert S.	#3 Bacchus Avenue, Hercules,	758-3376
Bellah, Byron J.	2421 McBryde Avenue, Richmond	232-1295
Bender, Raymond	345 Summit Drive, Pinole	758-1689
Bers, Henry S.	2400 Dana Street, Berkeley	843-9906
Bigelow, Boyd W.	2707 Colusa Street, Pinole	758-3626
Birdwell, Tommy R.	5 Santa Fe Avenue, Hercules	758-2653
Boeger, Antone H.	Rt. 3, Box 402, Martinez	228-3647
Bollinger, William H.	14 Santa Fe Avenue, Hercules	758-3371

WAGE ROLL - ADDRESS LIST

December 15, 1963

A

253-2588	3004 Baywood Lane, San Pablo	Adams, Patricia G.
758-3766	621 Quinn Street, Pinole	Adams, John Jr.
932-0170	104 Woodson Avenue, Walnut Creek	Allen, Charles R.
932-7763	818 Campbell Drive, Pleasant Hill	Alon, Allen S.
758-8661	41 Pinole Street, Hercules	Anderson, Ann H.
682-0523	2721 Highway Avenue, Concord	Anderson, James J.
758-3094	1 Park Street, Hercules	Anderson, Albert A.
322-0521	719 Yuba Avenue, Richmond	Anders, Stanley F.

B

758-6217	1200 San Pablo Avenue, Pinole	Antkowiak, Alfred J.
758-3791	2222 Henry Avenue, Pinole	Antkowiak, William
758-2161	1036 Marlene Road, Pinole	Antkowiak, Joseph H.
758-4900	68 Delta Drive, Elmhurst	Antkowiak, Carlos D.
758-2625	1313 - 6th Street, Redon	Antkowiak, Joseph
682-6122	3130 1st Drive, Concord	Antkowiak, Donald G.
253-8348	161 Sheryl Drive, San Pablo	Antkowiak, Roger
758-3770	43 Macchia Avenue, Hercules	Antkowiak, Robert S.
253-1202	2621 Highway Avenue, Richmond	Antkowiak, Byron J.
758-1680	365 Summit Drive, Pinole	Antkowiak, Raymond
682-9200	2400 Dana Street, Berkeley	Antkowiak, Henry S.
758-3660	2707 Colman Street, Pinole	Antkowiak, Boyd W.
758-2523	5 Santa Fe Avenue, Hercules	Antkowiak, Tony R.
253-3647	Rt. 3, Box 402, Martinez	Antkowiak, Antonio R.
758-3771	16 Santa Fe Avenue, Hercules	Antkowiak, William R.

B

Broberg, Gordon T.	1864 Green Island Road, Vallejo	707-644-2159
Burton, Elmo	3 Santa Fe Avenue, Hercules	758-0159
Button, Harold R.	893 - 4th Avenue, Pinole	758-2484

C

Carbonneau, Wayne O.	6209 Tehama Avenue, Richmond	524-0479
Ceselini, Valentino H.	1400 Pinole Valley Road, Pinole	758-3718
Chandler, Willard C.	3410 Grasswood Drive, Richmond	223-4941
Chisum, Clarence B.	#1 Bacchus Street, Hercules	758-3439
Clemons, Dale	243 Orange St., Apt. 1, Oakland	
Clark, Clarence C.	1700 Broadway, Apt. 2, San Pablo	232-6406
Clark, John Q.	134-1/2 Parker Avenue, Rodeo P. O. Box 29, Hercules	
Classick, John A.	5640 Castro Road, San Pablo	223-3436
Clute, Kenneth D.	10 Hercules Avenue, Hercules	758-3355
Comer, John W.	208 Mobile Circle, Vallejo	707-642-4070
Crofoot, Raymond A.	551 Lake Avenue, Rodeo	Rodeo 2039

D

Daniel, William W.	2838 LaSalle Avenue, Concord	682-0958
Darrah, Eldon E.	4197 Rita Drive, Martinez	228-0284
Davis, Fred E.	12 Hercules Avenue, Hercules	758-3098
Davis, Hugh T.	2565 San Pablo Avenue, Pinole	758-2782
Davis, Walter D.	2411 Church Lane, Apt. 5, San Pablo	235-1722 (N)
Denning, Alonzo B.	549 Loring Avenue, Crockett	
Deschaine, Francis E.	2142 Bush Street, San Pablo	235-3458
Dodson, Henry S.	135 Rodeo Avenue, Rodeo	Rodeo 2849

707-544-2150

1864 Green Island Road, Vallejo

758-0133

3 Santa Fe Avenue, Hercules

750-0480

893 - West Avenue, Pinole

552-0479

6209 Tehama Avenue, Richmond

758-3113

1400 Pinole Valley Road, Pinole

553-4941

3610 Greenwood Drive, Richmond

758-3433

41 Jackson Street, Hercules

532-0405

247 George St., Apt. 1, Oakland

523-3434

134-1/2 Park Avenue, Redwood City

758-3733

10 Hercules Avenue, Hercules

707-642-1070

208 Media Circle, Vallejo

Redwood 2232

757 Lake Avenue, Redwood

682-0258

2838 LaBelle Avenue, Concord

528-0287

4197 Rice Drive, Martinez

758-3028

12 Hercules Avenue, Hercules

758-2182

2565 San Pablo Avenue, Pinole

232-2122 (H)

2411 Church Lane, Apt. 2, San Pablo

232-3458

2142 Bush Street, San Pablo

Redwood 2249

132 Hobbs Avenue, Redwood

Brooklyn, Gordon T.

Burton, Elmer

Burton, Harold H.

Carbomann, Wayne O.

Casellini, Valentino E.

Chandler, Willard C.

Chisum, Clarence B.

Clemens, Dale

Clark, Clarence C.

Clark, John G.

Clawson, John A.

Critt, Kenneth D.

Cover, John W.

Crocker, Raymond A.

Fantel, William W.

Farrish, Elton E.

Felix, Fred E.

Felix, Hugh T.

Felix, Walter D.

Fleming, Almon B.

Fuchsman, Francis E.

Gordon, Henry E.

D

Doidge, William C.	6 Bay Street, Hercules	758-1041
Douglas, Ervin H.	2977 - 12th Street, San Pablo	235-5648
Drake, Samuel G.	12 Santa Fe Avenue, Hercules	758-3465

E

Eastman, Richard	1246 Palm Avenue, Martinez	228-5980
Eattock, Frank C., Jr.	323 Sharon Avenue, Rodeo	Rodeo 2042
Elliott, Edwin E.	2604 Sheffield Avenue, San Pablo	233-3578
Engel, Ernest R.	5530 Alaska Drive, Concord	682-4850
Engel, Paul P.	Adams Court, Apt. #1, Pinole	758-1686
Engel, Walter J.	16 Park Street, Hercules	758-3450
Enos, Antone T.	2379 Prune Street, Pinole	758-3375
Epley, Ray	854 E. Meadow Avenue, Pinole	758-3630

F

Farris, Raymond C.	2782 Rollingwood Drive, San Pablo	223-6652
Faylor, Dale A.	506 Tenent Avenue, Pinole	758-0289
Flosi, John R.	3507 Dormer Way, Concord	689-3873
Flynn, Robert H.	21 Denise Drive, San Pablo	223-7063
Foskett, Marcus	748 Crestview Drive, Pinole	758-3782
Francis, Jesse	332 - 35th Street, Richmond	233-7628
Francis, Joe	2614 Vale Road, San Pablo	235-0312
Francis, Louis A.	707 Smith Avenue, Pinole	758-3645

758-1041

6 Bay Street, Berkeley

Bridge, William C.

758-3643

2771 - 12th Street, San Pablo

Briggs, Frank E.

758-3643

12 Santa Fe Avenue, Berkeley

Brink, Samuel B.

758-3643

1246 Palm Avenue, Martinez

Brummen, Richard

758-3643

363 Sharon Avenue, Redwood

Butcher, Frank C., Jr.

758-3643

2806 Shellbark Avenue, San Pablo

Callahan, Edwin E.

758-3643

2230 Alameda Drive, Concord

Engel, Ernest R.

758-3643

Alameda Court, Apt. #1, Pinole

Engel, Paul P.

758-3643

16 Park Street, Berkeley

Engel, Walter J.

758-3643

2379 Evans Street, Pinole

Evans, Antonio T.

758-3643

854 E. Madison Avenue, Pinole

Evans, Ray

758-3643

2765 Hollister Drive, San Pablo

Forbes, Raymond C.

758-3643

506 Forest Avenue, Pinole

Forbes, John A.

758-3643

3507 Dwyer Way, Concord

Frost, John E.

758-3643

21 Dwyer Drive, San Pablo

Frost, Robert H.

758-3643

748 Crater Drive, Pinole

Frost, Robert H.

758-3643

335 - 35th Street, Richmond

Frost, John

758-3643

2614 Vale Road, San Pablo

Frost, Joe

758-3643

707 Balboa Avenue, Pinole

Frost, Lucile A.

G

Gery, Eugene F.	271 Calais Drive, Pinole	758-2210
Gist, Joseph J.	2361 Rumrill Road, San Pablo	233-6503
Goforth, Bridger L.	#9 Bacchus Avenue, Hercules	
Goforth, Clarence A.	784 Rincon Road, El Sobrante	223-7184
Goodman, Bill	780 Alvarez Avenue, Pinole	
Goularte, Paul	Ellerhorst Avenue, Pinole	758-3502
Gozzano, Louis	963 Valley Avenue, Pinole	758-3370
Gregan, John F.	2772 Greenwood Drive, San Pablo	233-9272
Gregan, Stephen R.	858 Solano Court, El Sobrante	223-5972

H

Hadfield, George W.	33 Hollywood Avenue, Vallejo	707-644-7371 (N)
Hanelly, James F.	685 Santa Maria Road, El Sobrante	223-7992
Hansen, William W., Jr.	1670 San Pablo Avenue, Pinole	758-3664
Hart, Ronald G.	9 Simo Street, Alamo	934-7420
Hazen, Herman	1401 Barrett Avenue, Richmond	
Headington, Ronald B.	3151 - 11th Street, San Pablo	234-6154
Hedberg, Verne E.	5908 Bay View Avenue, Richmond	232-0697
Hegeman, David A.	12 Dunham Avenue, Hercules	758-3483
Hegeman, Lester R.	12 Dunham Avenue, Hercules	758-3483
Hemming, Karl M.	318 Haven Street, Martinez	228-6016
Hensley, Billy F.	1314 Folsom Street, San Pablo	233-7354
Higley, Marvin F.	1670 Marlesta Road, Pinole	758-3496
Hoover, James T.	2833 - 13th Street, San Pablo	235-3439
Hoover, Kenneth B.	13 Park Street, Hercules	758-2480
Hoover, Pat	1429 San Pablo Avenue, Pinole	758-9054
Howard, Don C.	2556 Fraser Court, Pinole	758-1317

158-2210	271 Calais Drive, Pinalo	Gary, Eugene F.
233-6303	2361 Humilis Road, San Pablo	Gier, Joseph J.
	49 Becchia Avenue, Hercules	Gofforth, Bridget L.
223-7151	184 Hinson Road, El Sobrante	Gofforth, Clarence A.
	180 Alvaraz Avenue, Pinalo	Goodman, Bill
158-3502	Elizabet Avenue, Pinalo	Goulet, Paul
158-3370	903 Valley Avenue, Pinalo	Gozzani, Louis
233-2272	2772 Greenwood Drive, San Pablo	Gregan, John F.
223-2212	858 Bolano Court, El Sobrante	Gregan, Stephen B.

107-614-1371 (M)	33 Hollwood Avenue, Vallejo	Hartfield, George W.
223-1992	655 Santa Maria Road, El Sobrante	Hawley, James K.
158-3551	1670 San Pablo Avenue, Pinalo	Hawes, William R., Jr.
234-1420	9 Almo Street, Alamo	Hart, Ronald G.
	1401 Barrett Avenue, Richmond	Hazen, Herman
234-6151	3121 - 11th Street, San Pablo	Hedington, Ronald B.
232-0697	2906 Bay View Avenue, Richmond	Hedberg, Verno E.
158-3483	12 Dunham Avenue, Hercules	Hegeman, David A.
158-3483	12 Dunham Avenue, Hercules	Hegeman, Lester E.
228-6016	318 Haven Street, Martinez	Hennings, Earl M.
233-1734	1314 Tolson Street, San Pablo	Hennings, Elly F.
158-3456	1670 Marjesta Road, Pinalo	Higley, Marvin F.
233-3432	2833 - 13th Street, San Pablo	Hoover, James T.
158-0080	13 Park Street, Hercules	Hoover, Kenneth E.
158-2024	1622 San Pablo Avenue, Pinalo	Hoover, Pat
158-1217	2526 Frank Court, Pinalo	Howard, Tom C.

H

Howell, Vernon E.	288 Calais Drive, Pinole	758-2627
Hunt, Richard E.	1416 Francis Street, Crockett	Crockett 1412
Hunt, Ruben F.	633-1/2 Rodeo Avenue, Rodeo	Rodeo 2542

I

Ingram, Carl H.	10 Bay Street, Hercules	758-2039
Ingram, Joseph A.	607 Key Blvd. Richmond	232-0468

J

Jensen, Dell W.	534 East 7th Street, Oakland	834-1353
Johnson, Melvin I.	109 Baxter Street, Vallejo,	707-644-2329
Johnson, Walter	1572 Sutherland Court, Concord	682-5583

K

Kearns, Frank	1/2 Bay Street, Hercules	758-3693
Kelly, Willard J.	2602 East Olivera Road, Concord	682-2316
Kelm, David C.	3129 Fitzpatrick St., Concord	682-4889
King, Billy F.	1950 Solano Way, Concord	682-1310
Kirk, David D.	120 Rodeo Avenue, Rodeo	
Knight, Russell L.	1 Santa Fe Avenue, Hercules	758-0543
Kreitzer, Henry	3121 Garvin Avenue, Richmond,	234-0462
Krummen, Arthur B.	4171 Valley Avenue, Martinez	228-1541

L

Lane, John C.	749 - John Street, Pinole	758-2525
Langford, Herman W.	7 Skelly Avenue, Hercules	758-3438
Lasnini, Vernon E.	2408 Paloma Street, Pinole	758-2562
Lawson, Raymond	553 East 12th Street, Richmond	432-6041
Leighty, George	825 E. Meadow Avenue, Pinole	758-2094
Lenz, Charles E.	8 Skelly Avenue, Hercules	758-2669
Lewis, Robert H.	2547 Downer Avenue, Pinole	758-3522
Livermore, Elroy A.	7 Bacchus Avenue, Hercules	758-2342
Livingston, Charles E.	140 Karry Lane, Pleasant Hill	686-4350
Louis, John S.	545 - 34th Street, Richmond	235-0429

M

McCall, Daniel T.	21 Park Street, Hercules	758-3780
McCormick, Jimmy T.	#5 Bacchus Avenue, Hercules	758-0287
McGillivray, Nigel B.	13900 San Pablo Ave., Space 17, San Pablo	232-8931
McIntyre, Orville R.	1422 California St., San Pablo	235-6965
McMaster, William E.	404 So. 16th Street, Richmond	235-4210
Maderia, Leo	5405 Hessel Avenue, Sebastopol	Va. 3-3594
Maderos, Frank	890 Pine Street, Pinole	758-3459
Mahoney, Thomas P.	2805 Avon Avenue, Concord	686-4755
Maier, Emil	703 Mariposa Street, Rodeo	
Mariuzza, Lindow	871 Valley Avenue, Pinole	758-3096
Marshall, Lyle L.	11 Park Street, Hercules	758-3592
Masterson, Charles E.	827 Betty Avenue, Pinole	758-2763
Mathis, Harry E.	1843 - 2nd Street, Concord	685-5869
Mayher, Steven C.	1930 Emerie Avenue, San Pablo	233-4029
Mears, Clyde R.	1539 Nob Hill Avenue, Pinole	758-3740
Miller, Dallas R.	585 Parker Avenue, Rodeo	Rodeo 4157
Miller, Drain P.	1103 Key Route Blvd. Albany	525-4420

758-2572	709 - 4th Street, Pinole	Henry, John C.
758-3438	7 Shelly Avenue, Hercules	Henderson, Herman W.
758-2562	2408 Polaris Street, Pinole	Hennrich, Vernon E.
432-6041	2523 West 12th Street, Richmond	Henson, Raymond
758-1092	625 E. Mendon Avenue, Pinole	Henrichy, George
758-2660	8 Shelly Avenue, Hercules	Hess, Charles E.
758-3722	2547 Brower Avenue, Pinole	Hewitt, Robert E.
758-2342	7 Pachana Avenue, Hercules	Hilversma, Elroy A.
682-4320	140 Thruxy Lane, Pleasant Hill	Hingston, Charles E.
632-0422	242 - 34th Street, Richmond	Holmes, John E.
758-3182	21 Park Street, Hercules	Holli, Daniel T.
758-002	45 Sandrine Avenue, Hercules	Holmes, Jimmy F.
632-8132	13020 San Pablo Ave., Space 1A, San Pablo	Hollaway, Nigel B.
632-6262	1422 California St., San Pablo	Holmes, Orville R.
632-4212	405 So. 16th Street, Richmond	Holmes, William E.
758-3322	2402 Hessel Avenue, Sebastopol	Holmes, Leo
758-3422	830 Pine Street, Pinole	Holmes, Frank
682-4122	3305 Aven Avenue, Concord	Holmes, Thomas P.
758-3022	703 Harrison Street, Redco	Holmes, Bill
758-3322	814 Valley Avenue, Pinole	Holmes, Landon
758-3322	11 Park Street, Hercules	Holmes, Kyle J.
758-2122	821 Betsy Avenue, Pinole	Holmes, Charles E.
682-2822	1843 - 2nd Street, Concord	Holmes, Betty E.
632-4022	1330 Emale Avenue, San Pablo	Holmes, Herman C.
758-3742	1232 2nd Hill Avenue, Pinole	Holmes, Clyde E.
758-4122	255 Brown Avenue, Novato	Holmes, Helen E.
632-4022	1101 2nd Street, Pinole	Holmes, David T.

M

Minster, Jerald H.	2909 Concord Blvd., Concord	682-8088
Montgomery, William E.	4807 Geneva Avenue	686-4497
Moore, John E.	P. O. Box 182, Rodeo DeMartin Ranch, McEwen Road, Port Costa	Crockett 1175
Morrison, Dewey C.	16 Santa Fe Avenue, Hercules	758-1189

N

Nelson, Woodrow T.	4826 Appian Way, El Sobrante	223-1099
Nethercott, Wilford H.	1549 Marlesta Road, Pinole	758-2652
Nilsen, Sidney	119 DeNormandie Way, Martinez	228-1787
Nilsson, Johan A.	947 - 4th Avenue, Pinole	758-3816
Normali, Alfonso G.	1023 - 1st Street, Crockett	Cr. 535
Olds, Wade B.	4900 Pinole Valley Road, Pinole	758-3498
Osborn, Burnell C.	1418 Carlton Drive, Concord	682-9007
Ostlund, Lamar A.	15 Hercules Ave. P.O.Box 134, Hercules	758-0121
Ousley, Darold L.	3941 Clark Road, El Sobrante	
Owen, Richard C.	10 Amarillo Drive, Vallejo	707-642-2896
Pavon, Manuel J.	11 Santa Fe Avenue, Hercules	758-3520
Payne, John W.	15 Santa Fe Avenue, Hercules P. O. Box 313 - Pinole	758-3384
Pearce, Bobby W.	#6 Dunham Avenue, Hercules	758-2234
Pedersen, Arthur P.	780 John Street, Pinole	758-3594
Pedersen, Lars P.	828 Magnolia Lane, Pinole	758-3767
Pennell, Joseph G.	18847 Lomita Avenue, Sonoma	707- 938-8360
Pereira, Lawrence L.	2 Pinole Street, Hercules	758-3401
Pfau, Raymond J.	1327 Richmond Street, El Cerrito	232-2145
Pieterick, Raymond J.	621 Fern Avenue, Pinole	758-2245
Pillion, Gerald L.	905 - 1st Street, Benicia	
Platt, William S.	1245 Raymond Drive, Pacheco	

682-3082

2209 Concord Blvd., Concord

Kilmer, James E.

682-4497

1877 Geneva Avenue

Montgomery, William F.

682-1172

P.O. Box 182, Reno
Dellmarin Ranch, Nelson Road, Fort Carson

Moore, John E.

723-1289

15 Santa Fe Avenue, Hercules

Newton, David C.

723-1030

1825 Apple Way, El Sobrante

Kelley, Norman T.

723-2032

1501 Northwest Road, Pinole

Kilmer, William E.

682-1101

119 Richmond Way, Hercules

Kilmer, John A.

723-3812

847 - 1st Avenue, Pinole

Kilmer, John A.

682-332

1023 - 1st Street, Concord

Kilmer, John A.

723-455

1200 Pinole Valley Road, Pinole

Kilmer, John A.

682-2007

1215 Jefferson Drive, Concord

Kilmer, John A.

723-0121

12 Hercules Ave., P.O. Box 13-Hercules

Kilmer, John A.

3041 Clark Road, El Sobrante

Kilmer, John A.

707-642-2810

10 Lincoln Drive, Vallejo

Kilmer, John A.

723-3520

11 Santa Fe Avenue, Hercules

Kilmer, John A.

723-3521

15 Santa Fe Avenue, Hercules
P.O. Box 112 - Pinole

Kilmer, John A.

723-2334

40 Dundas Avenue, Hercules

Kilmer, John A.

723-3522

100 John Street, Pinole

Kilmer, John A.

723-3787

628 Highland Road, Pinole

Kilmer, John A.

707-332-8300

1807 Lincoln Avenue, Concord

Kilmer, John A.

723-3401

2 Santa Fe Avenue, Hercules

Kilmer, John A.

723-2122

1327 Richmond Street, El Cerrito

Kilmer, John A.

723-2334

621 Fort Avenue, Pinole

Kilmer, John A.

705 - 1st Street, Hercules

Kilmer, John A.

1215 Jefferson Drive, Concord

Kilmer, John A.

P

Poe, Paul	1779 Landana Drive, Concord	685-7127
Poppleton, George A.	1227 Temple Drive, Pacheco	686-0475
Porter, Carl F.	2886 Andrade Avenue, Richmond	235-2742
Potts, Frank B., Jr.	1120 - 4th Street, Rodeo	Rodeo 2231
Pratt, Robert L.	111- 9th Street, Vallejo	707-684-1367
Pullins, George W.	1138 Medanos Street, Antioch	757-4892

R

Rakes, Kenneth E.	529 Loring Avenue, Crockett	Cr. 1006
Randall, Edwin E.	750 - 2nd Street, Rodeo	Rodeo 4573
Rard, Nestor H.	2572 Henry Avenue, Pinole	758-3009
Rawson, Leonard C.	419 San Pablo Avenue, Rodeo	Rodeo 4065
Redmond, William C.	1724-A Bissell, Richmond	235-0670
Reeder, Roger D.	270 Zoe Court, Pinole	758-2026
Robinson, Russell L.	30 Harbor Drive, Pittsburg	458-1118
Roedel, John R.	Bldg. M-11, Apt. 811, Rodeo	Rodeo 2390
Rollino, John L.	#15 Park Street, Hercules	758-2885
Rowan, Lawrence H.	4321 Chelsea Way, Concord	682-4720

S

Santaella, John A.	690 Rincon Road, El Sobrante	223-3958
Santaella, Tony	142 Dunham Avenue, Hercules	758-3734
Sassone, John N.	200 Buena Vista Drive, Pinole	758-3307
Scarsella, Harry A.	5 Pinole Street, Hercules	758-2249
Scoggins, Ernest F.	5737 Clinton Avenue, Richmond	233-3987
Seale, James H.	2114 Castro Street, Martinez	228-2258

685-7127	1779 Vandana Drive, Concord	Joe, Paul
685-0475	1851 Tequila Drive, Fresno	Waggoner, George A.
637-5465	3056 Andrade Avenue, Richmond	Porter, Gary F.
Notes 3231	1120 - 1st Street, Notes	Potts, Frank B., Jr.
707-684-7367	111- 9th Street, Vallejo	Pratt, Robert L.
757-4652	1138 Madonna Street, Antioch	Salinas, George W.

Cr. 1006	529 Irving Avenue, Crockett	Rakas, Kenneth E.
Notes 7573	750 - 2nd Street, Notes	Randall, Edwin E.
758-3002	5715 Berry Avenue, Pinole	Rard, Hector H.
Notes 4025	119 San Pablo Avenue, Notes	Ransom, Leonard C.
235-0670	1724-A Stacey, Richmond	Roberts, William C.
758-5006	270 Lee Court, Pinole	Roeder, Roger D.
458-1118	30 Harbor Drive, Pittsburg	Robinson, Russell L.
Notes 2300	High. H-11, Apt. 811, Notes	Rodriguez, John H.
758-2882	463 Park Street, Hercules	Roitman, John L.
685-4720	4321 Chelsea Way, Concord	Rowan, Lawrence H.

223-3558	690 Hinton Road, El Sobrante	Santalla, John A.
758-3734	142 Dunham Avenue, Hercules	Santalla, Tony
758-3307	200 Burma Vista Drive, Pinole	Sassone, John H.
758-2849	5 Pinole Street, Hercules	Schweitzer, Harry A.
833-3987	5737 Clinton Avenue, Richmond	Seegins, Ernest F.
228-2258	2114 Castro Street, Martinez	Seals, James H.

S

Shaffer, James H.	3015 Euclid Avenue, Concord	686-2336
Sill, Fred A.	878 - 36th Street, Richmond	234-4683
Silva, Gerald L.	5618 Van Fleet Ave., Richmond	524-8925
Silva, William A.	949 - 3rd Avenue, Pinole	758-3373
Silveira, James R.	745 Tormey Ave., Rodeo	Rodeo 2982
Silveria, Tonie	5886 Morpeth Street, Oakland	655-2339
Simon, Walter	860 Sunnyview Drive, Pinole	758-2468
Simpson, George D.	1752 - 10th Street, Berkeley 2, Calif.	841-0473
Slade, Rene	415 Ladera Drive, Vallejo	707-644-7371
Slade, Ralph B.	1073 Grant St., Vallejo	707-644-7982
Smallwood, William O.	#1 Bay Street, Hercules	758-3387
Smith, David H.	601 San Pablo Ave., Rodeo, Apt. 3	-
Smith, Leon J.	1139 San Pablo Ave., Pinole	758-0399
Sparks, Joe	9 Hercules Avenue, Hercules	758-2609
Speth, Robert J.	1749 - San Pablo Ave, Pinole	
Stadig, Otto A.	456 - 17th Street, Apt. H, Richmond	235-3912
Stafford, William T.	156 Hilltop Crescent, Walnut Creek	935-0825
Stanworth, Thirl W.	2161 Plum Street, Pinole	758-2933
Sterneberg, Paul V.	452 Sonoma Ave., Rodeo	Rodeo 2694
Stone, Jaxon S.	P. O. Box 41, Hercules	
Stout, Jackson L.	317 Vista Way, Martinez	228-3988
Stromstedt, Stanley O.	825 Betty Ave., Pinole	758-3563
Stuckmann, Henry C.	734 Ruth Drive, Pleasant Hill	682-4484

T

Taylor, Arthur E.	831 Pinole Valley Road, Pinole	758-3820
Taylor, James D.	#8 Pinole Street, Hercules	758-2237
Taylor, Vernon D.	4940 Laurel Drive, Concord	685-6017
Thatcher, Wilbur	17 Santa Fe Ave., Hercules	758-2338
Thomas, Fred V.	4500 Hilltop Drive, El Sobrante	223-8734
Thomason, Horace G.	539 Loring Avenue, Crockett	Cr. 1006
Tilson, Robert T.	Apt. #101, Dempsey Way, Rodeo	Rodeo 2634
Tilson, William O.	Apt. #101, Dempsey Way, Rodeo	Rodeo 2634
Turner, Clarence E.	#3 Park Street, Hercules	758-3033

V

Variz, Joseph J.	808 - 4th Street, Rodeo	Rodeo 2492
Vickery, Richard L.	3122 Fitzpatrick Drive, Concord	682-4727
Vroom, Howard H.	749 El Patio Court, El Sobrante	223-2733

W

Waford, Floyd W.	8 Hercules Avenue, Hercules	758-3388
Walker, James W.	2826 - 12th Street, San Pablo	233-7433
Watkins, Richard S.	419 E. Lind Street, Port Chicago	458-2225
Walls, Olie T.	#6 Hercules Avenue, Hercules	758-3067
West, Francis T.	17 Park Street, Hercules	758-3490
West, Gerald L.	171 Marlindia Court, Walnut Creek	934-2605 (N)
West, Thomas D.	739 - 5th Avenue, Pinole	
Williams, Hubert B.	2302 LaSalle Drive, Pinole	758-3652
Williams, Joseph F. Jr.	28 West Ruby Ave., Richmond	233-4844
Williams, Milton E.	1272 Laguna Street, Concord	685-0480
Willis, Norman O.	4662 Wilson Lane, Concord	682-2878

T

758-3880	832 Pinalo Valley Road, Pinalo	Taylor, Arthur E.
758-4237	48 Pinalo Street, Hercules	Taylor, James D.
685-6014	4840 Laurel Drive, Concord	Taylor, Vernon D.
758-4338	17 Santa Fe Ave., Hercules	Thatcher, Wilbur
823-8744	4508 Hilltop Drive, El Cerritos	Thomas, Fred V.
Gr. 1008	232 Loring Avenue, Crockett	Thompson, Herman G.
Redon 2534	Apt. 401, Denney Way, Redon	Tilton, Robert F.
Redon 2534	Apt. 401, Denney Way, Redon	Tilton, William O.
758-3033	43 Park Street, Hercules	Turner, Clarence E.

V

758-3438	808 - 4th Street, Redon	Vinik, Joseph J.
685-4337	3122 Fitzgerald Drive, Concord	Vickrey, Richard L.
823-8733	749 El Estero Court, El Cerritos	Woot, Howard E.

V

758-3338	8 Hercules Avenue, Hercules	Ward, Floyd W.
231-1413	802 - 12th Street, San Pablo	Walker, James W.
428-8222	103 E. Main Street, Port Chicago	Walsh, Richard S.
758-3057	46 Hercules Avenue, Hercules	Wells, Otto T.
758-3737	17 Park Street, Hercules	Went, Francis T.
934-8005 (N)	171 Marshall Court, Walnut Creek	Went, Gerald L.
	739 - 5th Avenue, Pinalo	West, Thomas D.
758-3530	2305 Isabelle Drive, Pinalo	Williams, Robert D.
231-1044	68 West Main Ave., Richmond	Williams, Joseph E. Jr.
685-6014	1272 Laguna Street, Concord	Williams, Milton E.
685-6014	4840 Laurel Lane, Concord	Willis, Herman O.

W

Wilson, Leonard E.	534 - 13th Street, Richmond	233-7773 (W)
Wise, George H.	2823 Rheem Avenue, Richmond	235-4697
Witman, Leander	1471 Drake Way, San Pablo 10	237-2153
Worton, William J. Jr.	1400 Contra Costa Blvd. #19, Pleasant Hill	686-4523
Wyatt, Noble W.	343 Napa Street, Rodeo	Rodeo 2378
Wyatt, Virgil W.	5504 Indiana Drive, Concord	685-3875

Revised: January 2, 1964

CHRONOLOGICAL PLANT SENIORITY LIST

Silveria, Tonie	5-6-19	Rard, Nestor	6-10-41
Francis, Joe	2-11-20	Taylor, James D.	2-16-42
Cesalini, Valentino	12-2-22	Langford, Herman	3-19-42
Scarsella, Harry	6-13-27	Maderia, Leo	3-24-42
Maderos, Frank	8-15-29	Mears, Clyde	4-10-42
Kreitzer, Henry	9-8-30	Classick, John	4-11-42
Francis, Louis	7-27-33	Chisum, Clarence	5-13-42
Rollino, John	8-22-33	Louis, John	5-26-42
Pavon, Manuel	9-11-33	Lewis, Robert	6-11-42
Boeger, Antone	10-5-33	Bollinger, Wm.	6-23-42
Ball, Robert	1-15-34	Bellah, Byron	7-13-42
Bender, Raymond	8-9-34	Randall, Edwin	8-6-42
Hedberg, Verne	9-5-34	McCormick, Jimmy T.	12-14-42
Santaella, Tony	2-21-35	Marshall, Lyle	1-22-43
Olds, Wade	4-24-35	Clark, Clarence	1-28-43
McCall, Daniel	10-7-35	Francis, Jesse	2-8-43
McGillivray, Nigel	9-2-36	Waford, Floyd	7-9-43
Davis, Hugh T.	9-8-36	Anderson, Jim	6-12-44
Pedersen, Lars	9-28-36	Lasnini, Vernon	6-19-44
Doidge, Wm. Chas.	5-10-38	Burton, Elmo	8-4-44
Kearns, Frank	8-29-38	Hegeman, Lester	1-17-45
Redmond, Wm. C.	5-9-39	Higley, Marvin	1-17-45
Sill, Fred A.	5-10-39	Wells, Olie T.	4-6-45
Pereira, Lawrence	5-16-39	Engel, Walter J.	7-19-45
Gozzano, Louis	5-16-39	Barnes, Jessie	8-23-45
Santaella, John	5-17-39	Fosket, Marcus A.	8-30-45
Clute, Kenneth D.	7-31-39	Nelson, Woodrow T.	9-25-45
Davis, Fred E.	7-31-39	Hoover, Kenneth B.	10-4-45
Banducci, Wm.	9-6-39	Mariuzza, Lindow	10-24-45
Poppleton, George A.	9-7-39	Silva, Wm.	1-2-46
Payne, John	10-4-39	Hansen, Wm. W.	2-19-46
West, Francis T.	10-16-39	Thatcher, Wilbur	3-18-46
Adams, John	11-21-39	Pearce, Bobby	3-29-46
Pedersen, Arthur	2-14-40	Gist, Joseph	4-23-46
Sassone, John	2-26-40	Drake, Samuel	5-1-46
Turner, Clarence E.	5-21-40	Goularte, Paul	5-1-46
Atchison, Albert	6-10-40	Lenz, Charles	5-17-46
Flynn, Robert H.	3-30-41	Pfau, Raymond	5-20-46
Sparks, Joe	5-7-41	Livermore, Elroy	5-22-46
Ingram, Carl H.	5-15-41	Sterneberg, Paul	5-27-46

CHRONOLOGICAL BY DATE OF BIRTH LIST

2-10-41	Hard, Walter	2-8-39	Winters, Louis
2-10-42	Hayler, James P.	2-11-39	Winters, Joe
3-10-42	Jackson, James	12-9-38	Winters, William
3-10-42	Koback, Leo	2-13-37	Winters, Harry
4-10-42	Koback, Clyde	8-12-39	Winters, Frank
4-11-42	Clawson, John	9-8-39	Winters, Henry
5-13-42	Clawson, Clarence	7-27-39	Winters, Louis
5-25-42	Leah, John	8-23-39	Winters, John
6-11-42	Leah, Robert	9-11-39	Winters, Samuel
6-23-42	Hollinger, Wm.	10-2-39	Winters, Anson
7-13-42	Bellah, Byron	1-15-39	Winters, Robert
8-6-42	Bellah, Edwin	8-9-39	Winters, Raymond
12-14-42	Hodges, Jimmy F.	9-2-39	Winters, Vernon
1-24-43	Hodges, Kyle	2-21-39	Winters, Tony
1-28-43	Clark, Clarence	4-24-39	Winters, Wade
2-8-43	Winters, James	10-7-39	Winters, Daniel
7-9-43	Winters, Victor	9-2-39	Winters, William
6-12-44	Anderson, Joe	9-8-39	Winters, Hugh T.
6-22-44	Anderson, Vernon	9-28-39	Winters, Lewis
8-1-44	Barton, Elmo	7-10-39	Winters, Wm. Gene
1-17-45	Hegeman, Lester	8-29-39	Winters, Frank
1-17-45	Hegeman, Morris	2-9-39	Winters, Wm. E.
4-6-45	Wells, Olin F.	7-10-39	Winters, Fred A.
7-10-45	Hegeman, Walter J.	7-16-39	Winters, Lawrence
8-23-45	Winters, Jessie	7-16-39	Winters, Lennie
8-30-45	Winters, Vernon A.	2-17-39	Winters, John
9-27-45	Hegeman, William F.	7-21-39	Winters, Kenneth B.
10-1-45	Hegeman, Kenneth B.	7-21-39	Winters, Fred F.
10-21-45	Hegeman, Linda	9-8-39	Winters, Wm.
1-2-46	Oliver, Wm.	9-7-39	Winters, George A.
2-10-46	Winters, Wm. W.	10-1-39	Winters, John
3-18-46	Winters, Wilbur	10-16-39	Winters, Francis F.
3-23-46	Winters, Bobby	11-21-39	Winters, John
4-23-46	Oliver, Joseph	2-16-40	Winters, Arthur
5-1-46	Winters, Samuel	2-26-40	Winters, John
5-1-46	Winters, Paul	2-21-40	Winters, Clarence E.
5-17-46	Winters, Charles	6-10-40	Winters, Albert
5-20-46	Winters, Raymond	7-30-41	Winters, Robert E.
5-22-46	Winters, Elroy	7-7-41	Winters, Joe
5-27-46	Winters, Paul	7-12-41	Winters, Carl E.

Smallwood, Wm.	6-6-46	Wilson, Leonard	9-9-48
Ingram, Joseph	6-7-46	Wise, George	9-9-48
Seoggins, Ernest	6-10-46	Masterson, Charles	5-10-49
Goforth, Bridger	7-3-46	Broberg, Gordon	5-19-49
Darrah, Eldon	7-10-46	Chandler, Willard	6-2-49
Willis, Norman	7-23-46	Comer, John	6-2-49
Ostlund, Lemar	7-25-46	Krummen, Arthur	6-2-49
Enos, Antone T.	7-29-46	Pennall, Joseph	6-6-49
Birdwell, Tommy	9-7-46	Slade, Gene	6-6-49
Stromsteadt, Stanley	9-13-46	Goforth, Clarence	9-19-49
Morrison, Dewey	9-16-46	Variz, Joseph	4-6-50
Hadfield, George	9-17-46	Reeder, Roger	4-24-50
Farris, Raymond	10-14-46	Taylor, Vernon	4-24-50
Thomas, Fred	10-23-46	Lane, John C.	5-8-50
Leighty, George	11-8-46	McMaster, Wm.	5-8-50
Kattock, Frank	3-22-47	Hunt, Richard	5-10-50
Gery, Eugene	4-16-47	Daniel, William	5-24-50
Witman, Leander	5-15-47	Pieterick, Raymond	7-13-50
Douglas, Ervin	5-27-47	Stout, Jackson	7-13-50
Hoover, James	5-27-47	Engel, Ernest	7-20-50
Stone, Jaxon	6-5-47	Poe, Paul	7-21-50
Nilsen, Sidney	6-25-47	Roedel, John	9-5-50
Bigelow, Boyd	7-22-47	Elliott, Edwin	10-3-50
Smith, Leon	7-22-47	Balthazar, Aldei	10-3-50
Hoover, Pat	7-22-47	Howard, Don	10-10-50
Dodson, Henry	10-21-47	Crofoot, Raymond A.	3-30-51
Moore, John E.	10-21-47	Kelly, Willard	5-17-51
Simon, Walter	11-14-47	Nethercott, Wilford	6-4-51
Epley, Ray	12-9-47	Stanworth, Thirl	10-9-51
Taylor, Arthur	7-8-48	Headington, Ronald B.	10-10-51
Maier, Emil	7-16-48	Clark, John Q.	4-16-52
Mayher, Steven	7-19-48	Slade, Ralph	4-30-52
Rawson, Leonard	7-19-48	Walker, James	5-15-52
Stadig, Otto	8-13-48	Kelm, David	6-2-52
Wyatt, Virgil	8-23-48	Knight, Russell	6-2-52
Hanelly, James	8-26-48	Goodman, Bill	8-13-52
Hazen, Herman	9-2-48	King, Billy	8-27-52
Potts, Frank	9-3-48	Silveira, James R.	9-11-52
Owen, Richard	9-3-48	Johnson, Melvin	9-12-52
Denning, Alonzo	9-9-48	Stuckmann, Henry	9-16-52

2-9-48	Wilson, Leonard	6-8-48	Smith, Wm.
2-9-48	Winn, George	6-7-48	Wright, Joseph
2-10-48	Winters, Charles	6-10-48	Wright, Robert
2-9-48	Worley, Gordon	7-3-48	Wright, Edgar
2-9-48	Wright, William	7-10-48	Wright, Elton
6-2-48	Yoder, John	7-23-48	Wright, Herman
6-2-48	Yoder, Arthur	7-25-48	Wright, James
6-2-48	Yoder, Joseph	7-29-48	Wright, James T.
6-2-48	Yoder, James	9-7-48	Wright, Tommy
9-19-48	Yoder, Clarence	9-13-48	Wright, Stanley
4-2-50	Yoder, Joseph	9-15-48	Wright, David
4-24-50	Yoder, Roger	9-17-48	Wright, George
4-24-50	Yoder, Vernon	10-14-48	Wright, Raymond
4-8-50	Yoder, John C.	10-23-48	Wright, Fred
4-8-50	Yoder, Wm.	11-8-48	Wright, George
5-10-50	Yoder, Richard	2-22-47	Wright, Frank
5-24-50	Yoder, William	4-15-47	Yoder, Eugene
7-13-50	Yoder, Raymond	5-15-47	Wright, James
7-13-50	Yoder, John	5-27-47	Wright, Kevin
7-20-50	Yoder, Ernest	5-27-47	Wright, James
1-22-51	Yoder, Paul	6-2-47	Yoder, James
9-5-51	Yoder, John	6-25-47	Wright, Sidney
10-3-51	Yoder, Edwin	7-22-47	Wright, Roy
10-3-51	Yoder, Albert	7-22-47	Wright, Leon
10-10-51	Yoder, Don	7-22-47	Wright, Pat
3-30-52	Yoder, Raymond A.	10-21-47	Wright, Harry
4-17-52	Yoder, William	10-21-47	Wright, John E.
6-1-52	Yoder, William	11-15-47	Wright, Walter
10-9-52	Yoder, Paul	12-9-47	Yoder, Roy
12-10-52	Yoder, Kenneth B.	7-8-48	Yoder, Arthur
4-25-52	Clark, John G.	7-15-48	Wright, Bill
4-30-52	Clark, Ralph	7-19-48	Wright, Steven
5-15-52	Walter, James	7-19-48	Wright, Richard
6-2-52	Walter, David	8-13-48	Wright, Otto
6-2-52	Wright, Russell	8-23-48	Wright, Virgil
8-13-52	Goodman, Bill	8-25-48	Wright, James
8-27-52	King, Billy	9-5-48	Wright, Herman
9-11-52	Wright, James R.	9-7-48	Wright, Frank
9-12-52	Wright, Melvin	9-7-48	Wright, Richard
9-15-52	Wright, Henry	9-9-48	Wright, Alton

Thomason, Horace	9-18-52	Mahoney, Thomas P.	3-14-62
Hunt, Ruben	9-26-52	Shaffer, James H.	4-9-62
McIntyre, Orville R.	4-24-53	Minster, Jerald H.	4-16-62
Button, Harold R.	5-7-53	Osborn, Burnell C.	4-30-62
Barnhardt, Edgar Y.	5-19-53	Simpson, George D.	4-30-62
Williams, Hubert B.	5-22-53	Lawson, Raymond L.	5-1-62
Howell, Vernon	7-13-53	Seale, James H.	5-1-62
Nilsson, Johan	7-20-53	Robinson, Russell L.	5-21-62
Porter, Carl	8-17-53	Eastman, Richard	6-8-62
Wyatt, Noble W.	10-21-53	Hart, Ronald G.	6-8-62
Pratt, Robert L.	8-9-56	Christensen, Mark	8-17-62
Watkins, Richard	2-20-57	Mathis, Harry E.	8-17-62
Clemons, Dale E.	8-13-59	Worton, Wm. J.	8-17-62
Speth, Robert J.	3-22-60	Allen, Charles R.	8-20-62
Banish, Joseph	7-5-60	Bers, Henry	8-20-62
Carbonneau, Wayne	6-14-60	Livingston, Charles E.	8-27-62
Hensley, Billy	6-21-60	Miller, Dwain P.	10-10-62
Engel, Paul	6-22-60	Pillion, Gerald L.	10-10-62
Audibert, Stanley F.	10-21-60	Barnett, Osmund O.	10-22-62
Normali, Alfonso G.	11-7-60	Deschaine, Francis E.	10-23-62
Abernathy, Derronda	11-7-60	West, Thomas D.	10-29-62
Gregan, Stephen N.	11-14-60	Tilson, William O.	10-31-62
Ousley, Darrold	3-29-61	Hemming, Karl M.	11-7-62
Miller, Dallas	4-11-61	Hegeman, David A.	9-10-63
Kirk, David D.	4-11-61	Vickery, Richard L.	9-10-63
Tilson, Robert T.	4-11-61	Williams, Milton E.	9-16-63
Gregan, John F.	4-24-61	Stafford, Wm. T.	9-17-63
Barber, Carlos	5-17-61	West, Gerald L.	9-17-63
Uroom, Howard H.	5-17-61	Montgomery, William E.	9-18-63
Pullins, George W.	5-19-61	Williams, Joseph F. Jr.	9-18-63
Silva, Gerald L.	5-19-61	Davis, Walter D.	9-19-63
Anderson, Laurel J.	8-30-61	Smith, David H.	9-25-63
Rowan, Lawrence H.	9-5-61		
Jensen, Dell W.	9-20-61		
Johnson, Walter	11-27-61		
Rakes, Kenneth E.	11-27-61		
Faylor, Dale	2-19-62		
Flosi, John R.	3-5-62		
Amos, Alden S.	3-14-62		
Platt, William S.	3-14-62		

3-14-62
4-9-62
4-16-62
4-30-62
4-30-62
McDonough, Thomas F.
Hawley, James E.
Munster, Gerald H.
Ogden, Bernard C.
Stapen, George D.

3-1-62
3-1-62
3-21-62
6-8-62
6-8-62
Lawson, Raymond L.
Seale, James H.
Robinson, Russell L.
Rastman, Richard
Hart, Ronald D.

8-17-62
8-17-62
8-17-62
8-20-62
8-20-62
Christensen, Mark
Matis, Harry E.
Worson, Wm. J.
Allen, Charles R.
Bero, Henry

8-27-62
10-10-62
10-10-62
10-22-62
10-23-62
Livingston, Charles F.
Miller, David P.
Pittman, Gerald L.
Barnett, Oswald O.
Beschta, Francis E.

10-29-62
10-31-62
11-7-62
9-10-62
9-10-62
West, Thomas D.
Wilson, William O.
Hamling, Karl M.
Hegman, David A.
Vickrey, Richard J.

9-16-62
9-17-62
9-17-62
9-18-62
9-18-62
Williams, Milton E.
Steffers, Wm. T.
West, Gerald L.
Montgomery, William E.
Williams, Joseph F. Jr.

9-19-62
9-23-62
Davis, Walter D.
Sater, David E.

9-18-62
9-26-62
4-26-62
5-1-62
5-19-62
Thompson, Thomas
Hart, James
Mullins, Gerald E.
Rastman, Richard E.
Hartman, Roger Y.

5-22-62
7-13-62
7-20-62
8-17-62
10-21-62
Williams, Robert E.
Howell, Vernon
Wilcox, John
Parker, Carl
Hurst, Noble V.

8-9-62
8-20-62
8-13-62
3-22-62
7-2-62
Prest, Robert L.
Weston, Richard
Clemens, Dale E.
Speth, Robert J.
Bantek, Joseph

6-14-62
6-21-62
6-23-62
10-21-62
11-7-62
Carstensen, Wayne
Hendley, Billy
Fogel, Paul
Antibert, Stanley F.
Norman, Alvin D.

11-7-62
11-14-62
3-29-62
4-11-62
4-11-62
Abernathy, Thornton
Gregan, Stephen R.
Gosley, Gerald
Miller, Dallas
Kirk, David H.

4-11-62
4-26-62
5-17-62
5-17-62
5-19-62
Tilson, Robert T.
Gregan, John F.
Baker, Carlos
Brown, Howard E.
Palms, George W.

5-19-62
6-30-62
9-2-62
9-20-62
11-27-62
Oliver, Gerald E.
Anderson, James J.
Korn, Lawrence H.
Jensen, Doll W.
Johnson, Walter

11-27-62
2-19-62
3-2-62
3-16-62
3-16-62
Kane, Kenneth E.
Fowler, Dale
Flood, John R.
Kane, Alvin E.
Hart, William E.

Hercules, California
January 14, 1964

To: Mr. C. H. Woodland - Cost Division Wilmington (2)
Mr. C. B. Kingery - Personnel Wilmington (1)
Mr. E. St. P. Bellinger - Dir. of Operations - Syn.-Wilm. (1)
Mr. J. M. Eagan - Asst. Dir. of Operations-Syn.-Wilm. (1)
Mr. R. J. McCloskey - Synthetics Wilmington (1)
Mr. G. E. Lowe - Manager - Plant (1)
Mr. G. M. Hoffmann - Asst. Manager-Plant (1)
Mr. E. C. Bowers - Plant (1)
Mr. J. A. Purvis - Plant (1)
Mr. F. Bartholomew - Plant (1)
Mr. A. H. Manchester - Plant (1)
Mr. R. R. Albright - Plant (1)
Mr. E. S. Ludwig - Plant (1)
Mr. P. M. Nettleton - Plant (1)
Mr. H. M. Lynch - Plant (1)

From: Morgan O. Blythe

Please refer to wage rate schedule for the Hercules Plant effective April 2, 1963 and eliminate the following classifications.

<u>Magazine Area</u>	<u>Payroll Rate</u> <u>\$/Hr.</u>
Cap Magazine Keeper	3.10
Magazine Car Blocker	2.92
Magazine Locomotive Helper	2.81

The above classifications were eliminated December 16, 1963.

MOB:pjs

Morgan O. Blythe

DEL

DEL

Mr. H. M. Lynch - Plant

The above classification were eliminated December 15, 1963.

Magazine Area	Payroll Rate 2/74
Magazine Locomotive Helper	2.81
Magazine Car Blocker	2.92
Cap Magazine Keeper	3.10

Please refer to wage rate schedule for the Hercules Plant effective April 2, 1963 and eliminate the following classifications.

From: Morgan O. Blythe

Mr. H. M. Lynch - Plant
Mr. S. M. Ventilation - Plant
Mr. E. S. Ludwig - Plant
Mr. R. R. Albright - Plant
Mr. A. H. Manchester - Plant
Mr. F. Bartholomew - Plant
Mr. J. A. Davis - Plant
Mr. E. C. Bowen - Plant
Mr. G. M. Hoffman - Asst. Manager-Plant
Mr. G. E. Lowe - Manager - Plant
Mr. R. J. McCloskey - Synthetic Wilmington
Mr. J. M. Egan - Asst. Dir. of Operations-Syn. Wilmington
Mr. E. St. P. Bellinger - Dir. of Operations - Syn. Wilmington
Mr. C. B. Kiegy - Personnel Wilmington
Mr. C. H. Woodard - Cost Division Wilmington

January 14, 1964

[illegible]

NOTE: The Safety Department Supervisor is responsible for setting-up and operating all phases of the Safety program not directly connected with various operations on the Plant. The phases include general overall safety promotion, supplying and filing of safety information, investigating of injuries and accidents, supplying of safety equipment, administration of safety training, checking of and making safety reports, making and reporting on special and overall safety inspections, operating the Medical Department, supervising the Fire Fighting unit and keeping the Emergency Procedures up to date and the assigned personnel trained to carry-out their duties.

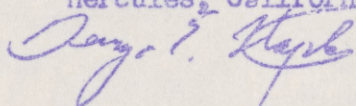
Hercules, California
April 18, 1962

TO:

J. M. Herr - Cost Division Wilmington	(2)
C. B. Kingery - Personnel Wilmington	(1)
E. P. St. Bellinger - Dir. of Operations-Synthetics	(1)
J. M. Eagan - Asst. Dir. of Operations-Synthetics	(1)
G. E. Lowe - Manager-Plant	(1)
G. M. Hoffman - Asst. Manager - Plant	(1)
E. C. Bowers - Plant	(1)
J. A. Purvis - Plant	(1)
J. Hagan - Plant	(1)
A. H. Manchester - Plant	(1)
C. J. Koefler - Plant	(1)
E. S. Ludwig - Plant	(1)
P. M. Nettleton - Plant	(1)
H. M. Lynch - Plant	(1)

FROM:

George E. Staples
Hercules, California



Attached is wage rate schedule for the Hercules Plant effective April 13, 1962.

- () H. A. Lynch - Plant
- () F. M. Weston - Plant
- () E. S. Lewis - Plant
- () C. J. Koster - Plant
- () A. B. Henderson - Plant
- () J. Egan - Plant
- () L. A. Purvis - Plant
- () K. C. Powers - Plant
- () B. H. Hoffman - Plant
- () G. E. Lane - Plant
- () D. K. Egan - Plant
- () E. P. McElroy - Plant
- () G. E. Egan - Plant
- () H. A. Lynch - Plant

George E. Egan
Henderson, California
[Signature]

Allocated to wage rate schedule for the Henderson Plant effective April 15, 1946

April 11, 1963

HERCULES PLANT - WAGE RATE SCHEDULE

Effective 7:01 A.M. April 2, 1963

ACID DEPARTMENT

<u>Occupation</u>	<u>Payroll Rate \$/Hour</u>
Acid Plant Shift Supervisor	3.40
N. G. Foreman	3.40
Acid Area Mechanic Leaderman	3.40
Spare Acid Operator	3.15
Operators	3.10
Concentrator	
Crystallizer	
Mixed Acid	
Nitroglycerin	
Oxidation	
Utility (Acid)	
Acid Area Mechanic 2nd Class	3.02
(To 3.11 after 2 years at lower rate)	
Shift Breaker Helper (Acid)	2.97
Spare Helper No. 1 (Acid)	2.97
Oxidation Helper No. 1	2.97
Helper No. 1	2.92
Crystallizer	
Crystallizer - Spare	
Mixed Acid	
Utility (Acid)	
Helper No. 2 - Crystallizer	2.81
Helper No. 3 - Crystallizer	2.76
(To No. 2 Helper after 20 shifts)	

AMMONIA DEPARTMENT

Ammonia Plant Shift Supervisor	3.40
Ammonia Area Mechanic Leaderman	3.40
Shiftbreaker Ammonia Operator	3.15
Spare Ammonia Operator	3.15

AMMONIA DEPARTMENT (CONT.)

High Pressure Ammonia Operator	3.15
Operators	3.10
Compressor	
Gas Plant	
Synthesis	
Urea Plant	
Purification Operator	
Ammonia Area Mechanic 2nd Class	3.02
(To 3.11 after 2 years at lower rate)	

METHANOL DEPARTMENT

Shift Breaker Operator - Methanol Formaldehyde	3.15
Methanol Formaldehyde Control Room Operator	3.15
Spare Methanol Formaldehyde Operator	3.15
Formaldehyde Operator	3.10
Methanol Operator	3.10
Utility Operator - Methanol Formaldehyde	3.10
Urea Formaldehyde Operator	3.10
Urea Formaldehyde Helper #1	2.92
Urea Formaldehyde Helper #2	2.81

DYNAMITE DEPARTMENT

Dynamite Area Mechanic Leaderman	3.40
Dynamite Area Mechanic 1st Class	3.27
Spare Dynamite Operator	3.15
Operator	3.10
Box Factory	
Box Pack	
Cartridge Machine	
Dope House	
Mix House	
Pulp Dry	
Shell House	

DYNAMITE DEPARTMENT CONT.

Dynamite Area Mechanic 2nd Class (To \$3.11 after 2 years at lower rate)	3.02
Dynamite Locomotive Operator	2.97
Helper No. 1	2.92
Box Factory	
Box Pack	
Cartridge Machine	
Clean Up Man	
Cotton Screen Man	
Cutting House Man	
Dope House	
Dynamite Trucker	
Oil Wheeler	
Shell House	
Dynamite Locomotive Helper	2.81
Helper No. 2	2.81
Box Factory	
Box Pack	
Dope House	
Dynamite	
Shell House	
Helper No. 3	2.76
(To No. 2 Helper after 20 shifts)	
Dope House	
Dynamite	
Box Factory	
Shell House	

MAGAZINE AREA

Shift Supervisor	3.40
Assistant Magazine Foreman	3.10
Cap Magazine Keeper	3.10
Magazine Locomotive Operator	2.97
Magazine Utility Man	2.92
Magazine Car Blocker	2.92
Magazine Locomotive Helper	2.81
Magazine Helper No. 1	2.81
Magazine Helper No. 2	2.76

Unit 1 - 1st Shift - 1st Year of Service

Unit 2 - 2nd Shift - 1st Year of Service

Unit 3 - 3rd Shift - 1st Year of Service

Unit 4 - 4th Shift - 1st Year of Service

Unit 5 - 5th Shift - 1st Year of Service

Unit 6 - 6th Shift - 1st Year of Service

Unit 7 - 7th Shift - 1st Year of Service

Unit 8 - 8th Shift - 1st Year of Service

Unit 9 - 9th Shift - 1st Year of Service

Unit 10 - 10th Shift - 1st Year of Service

Unit 11 - 11th Shift - 1st Year of Service

Unit 12 - 12th Shift - 1st Year of Service

Unit 13 - 13th Shift - 1st Year of Service

Unit 14 - 14th Shift - 1st Year of Service

Unit 15 - 15th Shift - 1st Year of Service

Unit 16 - 16th Shift - 1st Year of Service

Unit 17 - 17th Shift - 1st Year of Service

Unit 18 - 18th Shift - 1st Year of Service

Unit 19 - 19th Shift - 1st Year of Service

Unit 20 - 20th Shift - 1st Year of Service

Unit 21 - 21st Shift - 1st Year of Service

Unit 22 - 22nd Shift - 1st Year of Service

Unit 23 - 23rd Shift - 1st Year of Service

Unit 24 - 24th Shift - 1st Year of Service

Unit 25 - 25th Shift - 1st Year of Service

MAINTENANCE

Maintenance Foreman	3.65
Electrician	
Machinist	
Pipefitter	
Scale & Instrument	
Welder	

Leademan	3.40
Auto Mechanic	
Carpenter	
Electrician *	
Machinist *	
Mason	
Metalsmith	
Painter	
Pipefitter *	
Rigger	
Scale & Instrument *	
Welder *	

*To be used as detailed rate only when the Maintenance Foreman is off the job due to vacation or illness.

Mechanic 1st Class	3.27
Auto Mechanic	
Carpenter	
Electrician	
Leadburner	
Machinist	
Mason	
Mechanic	
Metalsmith	
Painter	
Pipefitter	
Scale and Instrument	
Welder	

Mechanic 2nd Class	3.02
(To \$3.11 after 2 years at lower rate)	
Auto Mechanic	
Carpenter	
Electrician	
Machinist	
Mason	
Mechanic	
Metalsmith	
Painter	
Pipefitter	
Scale and Instrument	
Welder	

Rigger No. 1	3.02
Truck Driver Utility	2.97
Rigger No. 2	2.92
General Helper No. 1 (Non-Progressive)	2.92
General Helper No. 2 (Non-Progressive)	2.81
Helper No. 1	2.81
Auto Mechanic	
Carpenter	
Electrician	
Machinist	
Mason	
Mechanic	
Metalsmith	
Painter	
Pipefitter	
Scale and Instrument	
Welder	
Maintenance Helper (Non- Progressive)	2.76
Helper No. 2	2.76
Auto Mechanic	
Carpenter	
Electrician	
Machinist	
Mason	
Mechanic	
Metalsmith	
Painter	
Pipefitter	
Scale and Instrument	
Welder	

POWER HOUSE

Power House Mechanic 1st Class	3.27
Power House Spare Engineer	3.15
Power House Engineer	3.10
Power House Fireman No. 1	2.92
Power House Fireman No. 2	2.81

2.02	Rigger No. 1
2.75	Truck Driver Utility
2.92	Rigger No. 2
2.92	General Helper No. 1 (Non-Progressive)
2.81	General Helper No. 2 (Non-Progressive)
2.81	Helper No. 1
	Auto Mechanic
	Carpenter
	Electrician
	Machinist
	Millwright
	Mechanic
	Metallic
	Painter
	Plumber
	Scale and Instrument
	Welder
2.75	Maintenance Helper (Non-Progressive)
2.75	Helper No. 2
	Auto Mechanic
	Carpenter
	Electrician
	Machinist
	Millwright
	Mechanic
	Metallic
	Painter
	Plumber
	Scale and Instrument
	Welder
	POWER HOUSE
2.25	Power House Mechanic 1st Class
2.15	Power House Spare Engineer
2.10	Power House Engineer
2.02	Power House Fireman No. 1
2.01	Power House Fireman No. 2

TRANSPORTATION, WAREHOUSING & GENERAL (MAGAZINES EXCLUDED)

Shift Supervisor	3.40
Assistant Labor Foreman	3.10
Storekeeper	3.10
Ingredient Locomotive Operator	2.97
Storehouse Helper No. 1	2.92
Ingredient Locomotive Helper	2.81
Office Attendant	2.81
Storehouse Helper No. 2	2.81
Yard Utility Man	2.81
Laundryman	2.76
Janitor	2.76
Watchman	2.76
Gardener	2.76
Laborer	2.59
Nurse	2.59
Sub-Laborer	2.42

Approved G. E. Lowe
G. E. Lowe

TRANSPORTATION, MAINTENANCE & GENERAL SERVICES EXCLUDED

2.40	Shift Supervisor
2.10	Assistant Labor Foreman
2.40	Stockkeeper
2.92	Ingredient Locomotive Operator
2.92	Storehouse Helper No. 1
2.81	Ingredient Locomotive Helper
2.81	Office Attendant
2.81	Storehouse Helper No. 2
2.81	Yard Utility Man
2.78	Landscaper
2.78	Janitor
2.78	Watchman
2.78	Gardener
2.52	Laborer
2.52	Painter
2.42	Sub-Laborer

Approved _____
G. F. Lowe

P. M. Nettleton

Hercules, California
December 3, 1956

WEEK-END AND HOLIDAY PLANT DUTY

Attached is a new Plant Call List.

Beginning with this new schedule each man, on each day he is scheduled for Plant Duty, is to make two inspection tours in the course of which he is to accomplish the following:

1. Check the following gates which should be found locked:
 - a. Lower gate on Low Level Road
 - b. Parking Lot gates
 - c. Main Gate
 - d. Gate at under-pass at U. S. 40
 - e. All perimeter gates on Burma Road
 - f. #13 Gate
2. Check Main Office front door and side door which should be found locked.
3. Contact Guards at Main Gate and #13 Gate to see if anything unusual should be investigated.
4. Make appropriate comments in Log Book at Main Gate when each tour is completed.

In situations requiring assistance or discussion please do not hesitate to call one of the following:

Staples	Ext. 203
Hatfield	" 316
Prechter	" 279
Bellinger	" 254

Yours very truly,

E. St. P. Bellinger
E. ST. P. BELLINGER, WORKS MANAGER

San Francisco, California
December 3, 1958

WEEK-END AND HOLIDAY PLANT DUTY

Attached is a new Plant Call List.

Beginning with this new schedule each man, on each day is scheduled for Plant Duty. To make two inspection tours in the course of which he is to accomplish the following:

1. Check the following gates which should be found locked:

- a. Lower Gate at Low Level Road
- b. Parking Lot Gates
- c. Main Gate
- d. Gate at entrance at U. S. 90
- e. All other gates at Burns Road
- f. All Gates

2. Check Main Office front door and side door which should be found locked.

3. Contact Guards at Main Gate and All Gates to see if any thing unusual should be investigated.

4. Make appropriate comments in Log Book at Main Gate when each tour is completed.

In all cases regarding maintenance or discussion please do not hesitate to call one of the following:

Staples	203
Halliday	215
Wickham	279
Balmainer	254

Yours very truly,

E. H. P. Balmainer
E. H. P. BALMAINER, WORKS MANAGER

To: All Employees

From: E. St. P. Bellinger

SHIFT PREMIUM

In order to clear up any misunderstanding among employees and supervisory personnel responsible for validating time cards and payment of same, the following rules and examples are given:

1. Second and third shift differentials do not apply to regular day employees or employees working the daylight shift who work beyond their regular quitting time. Day shift shall be considered a shift between the hours of 6 A.M. and 6 P.M. The normal shifts for continuous operations are 7:00 A.M. to 3:00 P.M., 3:00 P.M. to 11:00 P.M. and 11:00 P.M. to 7:00 A.M.

1. The following exceptions apply:

1. A shift employee held 3 hours or more beyond his regular scheduled shift will receive the shift differential applying for all of the hours worked in the second or third shift.
 - a. Example: A works 7 A.M. to 3 P.M. is held over to 5:45 P.M. No shift differential applicable.
 - b. A - works 7 A.M. to 3 P.M. and held over to 6 P.M. or after, say 8 P.M. He receives the 2nd shift differential of 9¢ for all hours worked from 3:00 P.M. to 11:00 P.M.
 - c. A - works 3 p.m. to 11 P.M. and held over to 1:45 A.M. He receives the 2nd shift differential from 3 P.M. to 1:45 A.M.
 - d. A - works 3 P.M. to 2 A.M. or after, say 4 A.M. He receives 2nd shift differential from 3 P.M. to 11 P.M. and 3rd shift differential of 16¢ for all hours worked from 11 P.M. to 7 A.M. In this case, 11 P.M. to 4 A.M.
 - e. A - works 11 P.M. to 7 A.M. and is held over up to 3 P.M. No shift differential applies for 7 A.M. to 3 P.M.
 - f. A - works 7 A.M. to 3 P.M. and is scheduled to return and work 11 P.M. to 7 A.M. He is paid 16¢ shift differential for all hours worked from 11 P.M. to 7 A.M.

II. A regular day employee who is scheduled in to work on a shift operation will be paid the shift differential applying to the shift worked under the same conditions as explained in examples (a) thru (f).

ESB/sa

Mr. J. Edgar Hoover

U. S. Department of Justice

SHIFT PATROL UNIT

In order to close up any misunderstanding among employees and supervisors regarding the following rules and regulations, the following are given:

1. Second and third shift differentials are not given to regular day employees of employees working the regular shift who work beyond their regular working hours. Day shift shall be considered a shift between the hours of 6 A.M. and 5 P.M. The normal shift for continuous operations are 7:00 A.M. to 3:00 P.M., 3:00 P.M. to 11:00 P.M. and 11:00 P.M. to 7:00 A.M.

2. The following exceptions apply:

A. Shift employee paid 1 hour or more beyond his regular scheduled shift will receive the shift differential applying for all of the hours worked in the second or third shift.

a. Example: A worker 7 A.M. to 3 P.M. is held over to 5 P.M. No shift differential applicable.

b. A worker 7 A.M. to 3 P.M. and held over to 5 P.M. or after, say 5 P.M. He receives the shift differential for 1 hour of 1 P.M. to 2:00 P.M. from 3:00 P.M. to 11:00 P.M.

c. A worker 3 P.M. to 11 P.M. and held over to 1 A.M. He receives the shift differential from 3 P.M. to 11 P.M. 1:00 A.M.

d. A worker 3 P.M. to 11 P.M. or after, say 1 A.M. He receives the shift differential from 3 P.M. to 11 P.M. and the shift differential of 1 hour for 1 hour worked from 11 P.M. to 1 A.M. In this case, 1 P.M. to 3 A.M.

e. A worker 11 P.M. to 7 A.M. and is held over to 7 P.M. No shift differential applies for 7 A.M. to 7 P.M.

f. A worker 7 A.M. to 3 P.M. and is scheduled to return and work 11 P.M. to 7 A.M. He is paid for shift differential for all hours worked from 11 P.M. to 7 A.M.

3. A worker who is scheduled to work in a shift, but will be paid the shift differential applying to the shift worked under the same conditions as explained in examples (a) thru (f).

nettleton

Hercules, California
July 13, 1955

BULLETIN NO. 27

TO: DEPARTMENT HEADS
FROM: E. ST. P. BELLINGER

MEAL ALLOWANCE

This bulletin is being issued to correlate the instructions contained in those of 5/31/55, 6/3/55 and 6/8/55 - thereby preventing possible oversights or errors.

The Supervisor will be responsible for obtaining lunches in his department. In the case of shift operations the shift supervisor will arrange to have a helper secure meals. When a larger number of meals are required, advance arrangements will have to be made so that the restaurant can get supplies if necessary.

The following policy should apply to handling of meals:

1. An employee required to work two hours beyond his scheduled eight, shall receive a cash allowance of \$0.75.
2. An employee required to work three or more beyond his scheduled eight, shall receive a \$1.75 cash allowance and be served a light lunch and hot or cold drink provided by the company, which will be served two hours after the end of the regular eight hour shift. Up to one-half hour work time will be provided for eating the meal, smoke and rest period at any convenient, permissible area.
3. In cases where an employee is scheduled-in for a double or sixteen hour shift or for three - four hours and brings his own lunch, he will receive the \$1.75 cash allowance plus two \$0.75 lunch allowances for eight hours and one \$0.75 allowance for three - five hours.
4. An employee held-over three - four hours beyond his regular eight may elect to forego the lunch and receive an additional \$0.75 cash allowance. Maintenance employees supplying their own lunch will be treated likewise.

Memphis, California
July 13, 1955

BULLETIN NO. 27

TO: DEPARTMENT HEADS
FROM: E. ST. P. BILLINGER

MEAL ALLOWANCE

This Bulletin is being issued to correlate the instructions contained in those of 5/31/55, 6/3/55 and 6/8/55 - thereby preventing possible overpayments or errors.

The Supervisor will be responsible for obtaining lunches in his department. In the case of shift operations the shift supervisor will arrange to have a helper secure meals. When a larger number of meals are required, advance arrangements will have to be made so that the restaurant can get supplies if necessary.

The following policy should apply to handling of meals:

1. An employee required to work two hours beyond his scheduled eight, shall receive a cash allowance of \$0.75.
2. An employee required to work three or more hours beyond his scheduled eight, shall receive a \$1.75 cash allowance and be served a light lunch and hot or cold drink provided by the company, which will be served two hours after the end of the regular eight hour shift. Up to one-half hour work time will be provided for eating the meal, smoke and rest period at any convenient, permissible area.
3. In cases where an employee is scheduled-in for a double or sixteen hour shift or for three - four hours and brings his own lunch, he will receive the \$1.75 cash allowance plus two \$0.75 lunch allowances for eight hours and one \$0.75 allowance for three - five hours.
4. An employee held-over three - four hours beyond his regular eight may elect to forego the lunch and receive an additional \$0.75 cash allowance. Maintenance employees supplying their own lunch will be treated likewise.

DEPARTMENT
HEADS

-2-

July 13, 1955

5. An employee at his option can take time off to eat elsewhere. He shall be given the same cash allowance and up to one-half hour's time detailed under paragraph two.
6. All allowances must be shown on the time card as such and will be paid each pay period in cash or by check.

EXAMPLES:	One meal allowance	\$1.75
	One lunch	\$0.75
	Second lunch	\$0.75

CEP/LL

July 13, 1955

5. An employee at his option can take time off to eat elsewhere. He shall be given the same cash allowance and up to one-half hour's time detailed under paragraph two.

6. All allowances must be shown on the time card as such and will be paid each pay period in cash or by check.

EXAMPLES:
One meal allowance \$1.75
One lunch \$0.75
Second lunch \$0.75

CEP/LL

Hercules, California
June 3, 1955

TO: DEPARTMENT HEADS AND JACK BRUEL

FROM: E. ST. P. BELLINGER, WORKS MANAGER

MEAL ALLOWANCE

In the past our method of handling meals and meal allowance for overtime works has not been consistent throughout the departments nor has the practice been satisfactorily defined. We believe the following policy adopted by the management and union is equitable and consistent with intended past practices.

1. An employee required to continue at work two hours beyond his scheduled eight hours working period shall receive a cash allowance of \$.75.
2. An employee required to work three hours or more beyond his scheduled eight hour working period shall receive a \$1.75 cash allowance and be served a light lunch and hot or cold drink provided by the company, which will be served 2 hours after the end of the regular shift. Up to one-half hour working time will be allowed for meal, smoking and rest period at any convenient permissible area.
3. An additional lunch with eating period as above will be supplied at each 4 hour interval thereafter.
4. An employee at his option can take time off to eat a hot meal elsewhere and he shall be given the same allowances under paragraph 2.
5. Credit for meals will be credited on the employees timecard under a column headed "Meal Allowance", \$.75 or \$1.75 whichever is applicable. Separate checks or cash will be given for accumulated credits at regular pay periods.

In the case of continuous operations, the relief for eating and smoking will be the same as now in practice.

ESB/b

...the following policy adopted by the management and which is equitable and consistent with intended practice...

MEAL ALLOWANCE

1. An employee required to continue at work two hours beyond his scheduled eight hours working period shall receive a meal allowance of \$1.75.

2. An employee at his option may elect to receive a meal allowance and be served a meal at the company canteen or at a restaurant. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

3. An additional meal with eating period shall be provided for overtime work hours of more than eight hours. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

4. An employee at his option may elect to receive a meal allowance and be served a meal at the company canteen or at a restaurant. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

5. Credit for meals will be provided on the employee's statement of earnings. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

6. An additional meal with eating period shall be provided for overtime work hours of more than eight hours. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

7. An employee at his option may elect to receive a meal allowance and be served a meal at the company canteen or at a restaurant. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

8. In the event of continuous operations, the relief for eating and smoking will be the same as in practice.

9. An employee at his option may elect to receive a meal allowance and be served a meal at the company canteen or at a restaurant. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

10. Credit for meals will be provided on the employee's statement of earnings. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

11. An additional meal with eating period shall be provided for overtime work hours of more than eight hours. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

12. An employee at his option may elect to receive a meal allowance and be served a meal at the company canteen or at a restaurant. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

13. Credit for meals will be provided on the employee's statement of earnings. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

14. An additional meal with eating period shall be provided for overtime work hours of more than eight hours. The meal allowance shall be paid by the company. The employee shall be required to submit a receipt from the restaurant or canteen for the meal allowance.

Hercules, California
May 31, 1955

TO ALL DEPARTMENT HEADS:

M E A L S

With reference to our bulletin "Meal Allowance" it is not intended that the light lunch will be a standardized box lunch but a choice of sandwiches, soup, pie and hot or cold drink preferred by the employee. Therefore, general rules will have to be established.

The Supervisor will be responsible for obtaining lunches for employees in his department. He should ascertain as soon as possible the number of employees involved and lunch desired.

In the case of continuous operations, the shift supervisor should arrange for the lunch to be picked up at a prearranged time by one of the helpers.

In the case of maintenance, powder line or others where a number of employees are involved, it may be advantageous to use the Club Bar in which case arrangements should be made in advance.

I suggest we discuss purchase of suitable beverage and food containers for this service.

E. ST. P. BELLINGER, WORKS MGR.

ESB/LL

Memorandum, California
May 24, 1955

TO ALL DEPARTMENT HEADS:

MEAL

With reference to our bulletin "Meal Allowance" it is not intended that the light lunch will be a standard box lunch but a choice of sandwiches, soup, etc. and hot or cold drink proffered by the employer. Therefore, general rules will have to be established.

The Supervisor will be responsible for obtaining lunches for employees in his department. He should ascertain as soon as possible the number of employees involved and lunch desired.

In the case of continuous operations, the shift supervisor should arrange for the lunch to be picked up at a prearranged time by one of the helpers.

In the case of maintenance, powder line or others where a number of employees are involved, it may be advantageous to use the Club Bar in which case arrangements should be made in advance.

I suggest we discuss purchase of suitable beverages and food containers for this service.

E. ST. P. BELLINGER, WORKS MGR.

BAB/LL

Hercules, California
June 3, 1955

To: ALL DEPARTMENT HEADS - JACK BRUHL

From: E. ST. P. BELLINGER, WORKS MANAGER

SUBJECT: LEAVE WITH PERMISSION

In the past, additional leave without pay has been granted to employees under certain conditions. This has been done heretofore without approval or knowledge of the Home Office.

Since as a Company we have many plants throughout the country with a total employment of over 15,000, it becomes necessary to adhere to standardized rules for granting such request for leave.

Many of our welfare plans are based on the premise that the working year is 2080 hours less vacations and paid holidays, or an average of 2,000 hours per year. These are:

1. Continuous Services for purposes of Pensions
2. Holiday Pay
3. Disability Pay
4. Voluntary Industrial Accident Compensation
5. Severance Pay
6. Death in Family
7. Jury duty Pay
8. Military Service Pay
9. Medical and Hospitalization Benefits
10. Group Accident and Sickness Insurance
11. Group Life Insurance

It is obvious that the overall costs of these benefits is adversely affected depending on the number of employees granted leaves and the extent of such leaves.

A Leave of Absence, one in which an employee receives no earnings in a month must be formally submitted to the Home Office for approval.

A Leave of One week or more in which the employee receives earnings during the month may be granted by the Plant Management and is considered a Leave With Permission.

No Leaves will be granted for an employee to accept other employment or to work for himself.

Requests for leaves must be submitted in Duplicate by the employee to the Department Supervisor on the attached form, two (2) weeks in advance, except in cases of emergency, showing the desired information.

The Request will be returned to the employee - Approved or Disapproved, showing the reason under "Remarks".

Applications will be considered on their individual merit and in general will consider the following points:

Personnel, California
June 1, 1955

To: ALL DEPARTMENT HEADS - JACK BRUHL

From: E. ST. P. BILLINGER, WORKS MANAGER

SUBJECT: LEAVE WITH PERMISSION

In the past, additional leave without pay has been granted to employees under certain conditions. This has been done heretofore without approval or knowledge of the Home Office.

Since as a Company we have many plants throughout the country with a total employment of over 15,000, it becomes necessary to adhere to standardized rules for granting such request for leave.

Many of our welfare plans are based on the premise that the working year is 2000 hours less vacations and paid holidays, or an average of 2,000 hours per year. These are:

1. Continuous Services for purpose of Pension
2. Holiday Pay
3. Disability Pay
4. Voluntary Industrial Accident Compensation
5. Severance Pay
6. Death in Family
7. Jury duty Pay
8. Military Service Pay
9. Medical and Hospitalization Benefits
10. Group Accident and Sickness Insurance
11. Group Life Insurance

It is obvious that the overall costs of these benefits is adversely affected depending on the number of employees granted leaves and the extent of such leaves.

A leave of absence, one in which an employee receives no earnings in a month must be formally submitted to the Home Office for approval.

A leave of one week or more in which the employee receives earnings during the month may be granted by the Plant Management and is considered a leave with permission.

No leaves will be granted for employee to accept other employment or to work for himself.

Requests for leaves must be submitted in duplicate by the employee to the Department Supervisor on the attached form, two (2) weeks in advance, except in cases of emergency, showing the desired information.

The Request will be returned to the employee - Approved or Disapproved, showing the reason under "Remarks".

Applications will be considered on their individual merit and in general will consider the following points:

1. Reason
2. Availability of employe, such as number of men in Department on scheduled vacations, sick or absent for other causes; number required to carry on Department work.
3. Length of Service.
4. Number of previous requests granted.

ESB/b

1. Reason

2. Availability of employee, such as number of men in Department on scheduled vacations, sick or absent for other causes; number required to carry on Department work.

3. Length of Service.

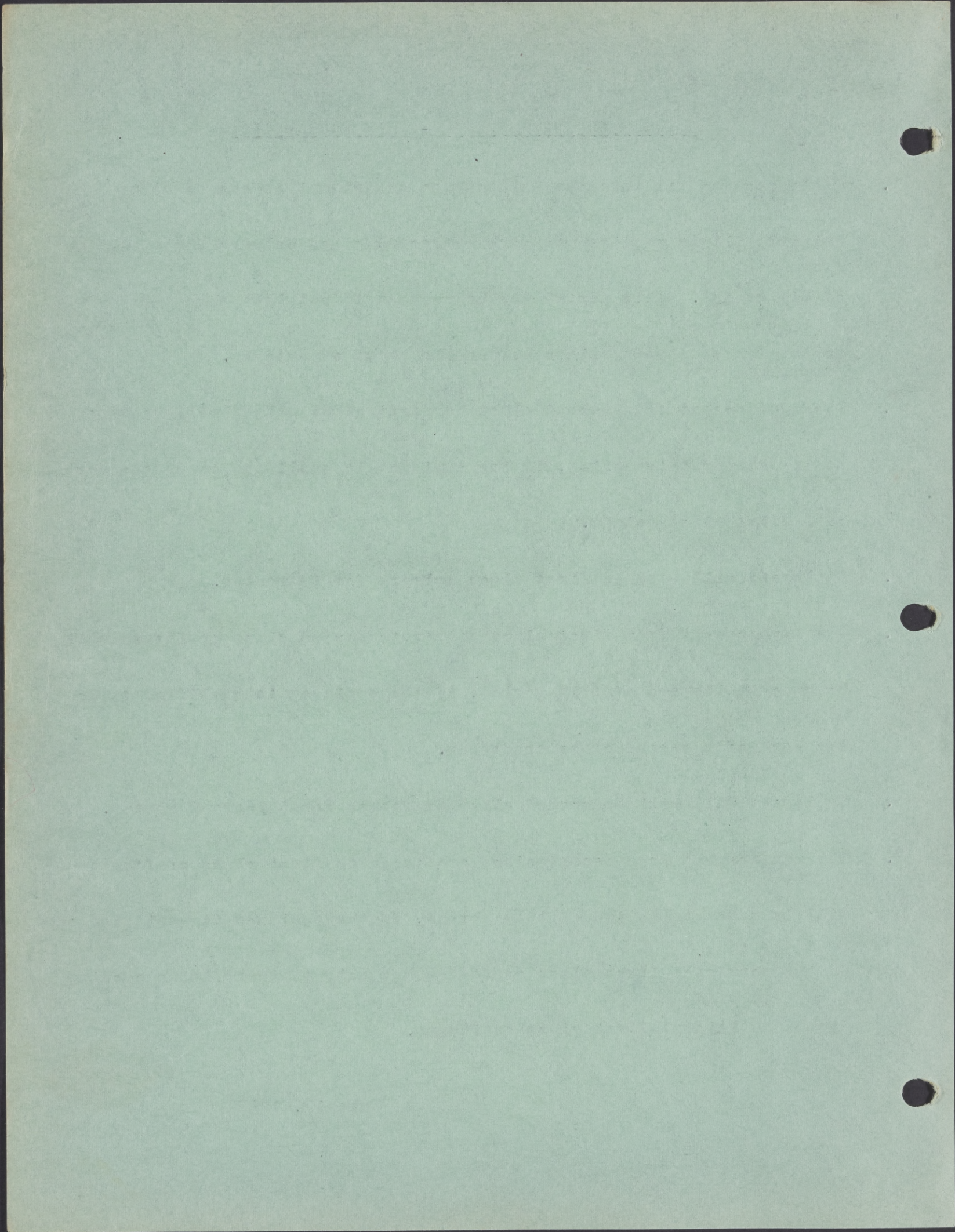
4. Number of previous requests granted.

EBB/

MAINTENANCE DEPARTMENT - JOB PROGRESSION

1. Employees who bid into the maintenance department as second class helpers will be required to work as second class helpers for a minimum of six months. This period may be reduced to not less than three months for employees with considerable plant experience.
2. The advancement from second class to first class helper will be made at the end of this period, if the employee is qualified to do the work of a first class helper.
3. Employees will work as first class helpers for 15 months.
4. The advancement from first class helper to second class craftsman will be made at the end of this period, if the employee is qualified to do the work of a second class craftsman.
5. Employees will work as second class craftsmen for 2 years 3 months.
6. The advancement from second class craftsman to first class craftsman will be made at the end of this period, if the employee is qualified to do the work of a first class craftsman but only if there is an opening for an additional first class craftsman.

June 17, 1947



MAINTENANCE DEPARTMENT - JOB PROGRESSION

1. Employees who bid into the maintenance department as second class helpers will be required to work as second class helpers for ~~a minimum~~ ^{3 mo.} ~~of~~ six months. This period may be reduced to not less than three months for employees with considerable plant experience.
2. The advancement from second class to first class helper will be made at the end of this period, if the employee is qualified to do the work of a first class helper.
3. ^{NORMALLY} Employees will work as first class helpers for ¹⁸ ~~15~~ months. ^{THIS MAY BE REDUCED TO 15 MONTHS IF THE TRAINEE DEMONSTRATES EXCEPTIONAL ABILITY.}
4. The advancement from first class helper to second class craftsman will be made at the end of this period, if the employee is qualified to do the work of a second class craftsman.
5. Employees will work as second class craftsmen for 2 years, ~~3 months.~~
6. The advancement from second class craftsman to first class craftsman will be made at the end of this period, if the employee is qualified to do the work of a first class craftsman but only if there is a definite need for an additional first class craftsman.

	Normal	Min	
2nd class helper	6	3	
1st " "	18	15	June 16, 1947
2nd class craftsman	24	24	
(low rate)	48	42	

CONFIDENTIAL

1. The purpose of this study is to determine the effect of the treatment on the response of the subjects.

2. The subjects were divided into two groups, one receiving the treatment and the other receiving the control.

3. The results of the study are as follows: the treatment group showed a significant improvement in response.

4. The improvement was statistically significant, with a p-value of less than 0.05.

5. The treatment was well tolerated by the subjects, with no adverse effects reported.

6. The study was limited by the small number of subjects and the short duration of the treatment.

7. Further studies are needed to confirm the results of this study and to determine the long-term effects of the treatment.

8. The study was conducted in accordance with the ethical standards of the institution.

9. The results of the study are consistent with the findings of previous studies.

10. The study was funded by the National Institutes of Health.

11. The study was published in the Journal of Clinical Investigation.

12. The study was presented at the annual meeting of the American Society for Clinical Investigation.

13. The study was reviewed by the Institutional Review Board.

14. The study was approved by the Institutional Review Board.

15. The study was conducted in accordance with the ethical standards of the institution.

16. The study was funded by the National Institutes of Health.

17. The study was published in the Journal of Clinical Investigation.

18. The study was presented at the annual meeting of the American Society for Clinical Investigation.

19. The study was reviewed by the Institutional Review Board.

20. The study was approved by the Institutional Review Board.

June 23, 1958

PLANT SENIORITY LIST

DIFFERENCES IN COMPANY DATES & UNION DATES

<u>NAME</u>	<u>COMPANY DATE</u>	<u>UNION DATE</u>
Cardosa, John	1-29-14	8-29-13
Ceselini, Valentino	10-29-22	12-2-22
Chisholm, Vernon A .	6-1-41	5-1-41
Chisum, Clarence B	6-13-42	5-13-42
Clark, Clarence	2-23-32	10-1-39
Darke, William A.	1-5-36	4-4-39
Deidge, William C.	8-9-35	5-10-38
Francis, Joe	8-11-20	2-11-20
Francis, Louis A.	2-21-33	7-27-33
Hagen, Herman	1-2-49	9-2-48
Hunnicuttt, Thomas F.	10-27-48	7-27-48
Hunt, Ruben F.	10-26-52	9-26-52
Jadryev, Peter M.	12-30-52	10-30-52
Kreitzer, Henry	2-8-31	9-8-30
McCornick, Jimmy T.	1-14-43	12-14-42
Maderia, Leo H	5-24-42	3-24-42
Marleiro, Luis M.	10-19-24	3-1-26
Owen, Richard C.	3-3-49	9-3-48
Potts, Frank B.	1-3-49	9-3-48

DISPOSITIONS IN COMPANY NAMES & UNICK NAMES
STATE UNIVERSITY NAME

NAME	COMPANY DATE	UNION DATE
Gardner, John	1-29-14	8-29-13
Gonsky, Valentine	10-29-22	12-2-22
Grisham, Vernon A.	6-1-41	7-1-41
Grisham, Clarence B.	6-13-42	7-13-42
Clark, Clarence	2-23-32	10-1-32
Darke, William A.	1-7-36	4-4-39
Dodge, William G.	6-9-32	7-10-38
Francis, Joe	6-11-20	2-11-20
Francis, Louis A.	2-21-33	1-27-33
Hansen, Herman	1-2-43	9-2-42
Henderson, Thomas T.	10-27-42	1-27-42
Hunt, Robert T.	10-26-22	9-26-22
Jedrycy, Peter M.	12-30-32	10-30-32
Kreitzer, Henry	2-4-31	9-8-30
McGonick, Jimmy E.	1-10-43	12-10-42
McGowan, Leo H.	2-24-42	3-24-42
Mastaglio, John M.	10-12-24	3-1-26
Owen, Richard G.	3-3-43	9-3-42
Reilly, Frank B.	1-3-42	9-3-42

<u>NAME</u>	<u>-2- COMPANY DATE</u>	<u>UNION DATE</u>
Randall, Edwin	9-6-42	8-6-42
Reiners, Hugo W.	8-26-27	9-26-25
Rosy, Arthur P.	12-3-52	11-3-52
Roberts, Levice D.	4-26-55	4-26-55
Rollino, John L.	2-25-31	6-25-31
Santos, Manuel E.	8-13-30	7-26-33
Scarsella, Harry	7-13-27	6-13-27
Scoggins, Ernest F.	9-10-46	6-10-46
Sill, Fred A.	4-14-38	5-10-39
Silveria, Tonie	7-6-19	5-6-19
Sparks, Joe	5-7-41	5-17-41
Stuckman, Henry C.	11-16-52	9-16-52
Thatcher, Wilbur	5-14-41	3-18-46
Thomas, Fred V.	11-23-46	10-23-46
Thomason, Horace G.	10-18-52	9-18-52
Turley, William H.	3-10-34	10-10-33
Watkins, Floyd J.	5-15-56	4-15-55
Vest, Francis T.	8-21-33	10-9-33
White, Kenneth B.	10-21-53	10-12-53
Wilson, Leonard E.	3-9-49	9-9-48
Wise, George H.	3-19-49	9-9-48
Wright, Chester P.	1-31-38	8-19-40

NAME	COMPANY DATE	UNION DATE
Handall, Edwin	9-8-52	8-8-52
Reinert, Hugo W.	8-26-52	9-26-52
Ross, Arthur P.	12-3-52	11-3-52
Roberts, Ivelce D.	4-26-52	4-26-52
Rollins, John L.	2-25-51	6-25-51
Santos, Manuel M.	8-13-50	7-26-52
Scarcellis, Harry	7-13-52	6-13-52
Seegins, Ernest P.	9-10-46	6-10-46
Sill, Fred A.	4-14-52	5-10-52
Silveria, Tony	7-6-49	5-6-49
Sparkes, Joe	5-7-41	5-17-41
Stechman, Henry C.	11-16-52	9-16-52
Thatcher, Wilbur	5-14-41	3-18-46
Thomas, Fred V.	11-23-46	10-23-46
Thomason, Horace G.	10-18-52	9-18-52
Torley, William H.	7-10-54	10-10-52
Watkins, Floyd J.	5-15-56	4-15-52
West, Kenneth T.	8-21-52	10-9-52
White, Kenneth B.	10-21-52	10-12-52
Wilson, Leonard E.	7-9-49	9-9-48
Wise, George H.	3-19-49	9-9-48
Wright, Chester P.	1-21-52	2-19-40

DAILY TIME CARD

DISTRIBUTION

DATE _____ MONTH/DAY/YEAR

DEPARTMENT		TOTALS				9500	HOLIDAY	MEAL ALLOWANCE	DISTRIBUTION															
Rate	NAME	HOURS			AMOUNT																			
		7-3	3-11	11-7																				
2.28	JOE DOAKES	8				8															(DAY SHIFT - REGULAR RATE)			
2.37	JOHN SMITH		8			8															(AFTERNOON SHIFT - 94)			
2.44	JAMES DOE			8		8															(GRAVEYARD SHIFT - 164)			
Det.	JAMES DOE							.75													(MEAL ALLOWANCE - SHOW AMOUNT)			
2.40	JOHN DOE	8				8															(DETAILED TO A JOB RATE - MUST BE INITIALED)			
2.40	JOHN DOE	8				8															(ESTABLISHED RATE - 10 DAYS)			
2.40	JOHN DOE	8				8	✓														(HOLIDAY ACTUALLY WORKED)			
2.40	JOHN DOE	✓					✓														(HOLIDAY ALLOWED - BUT NOT WORKED. PUT IN RATE, SHIFT DIFFERENTIAL, OR DAY OFF.)			
	JAMES JONES	D.O.																			(SCHEDULED DAY OFF)			
	JOHN SMITH	A.W.L.																			(ABSENT WITH LEAVE)			
	JAMES DOE	A.W.O.L.																			(ABSENT WITHOUT LEAVE)			
	JOHN DOE	SICK - FLU																			(GIVE REASON IF KNOWN)			
	JOE DOAKES	VACATION																			(IF EMPLOYEE IS TAKING LESS THAN A FULL WEEK (5 DAYS) PLEASE SHOW DAYS EXAMPLE: VACATION 4TH DAY)			
	JAMES JONES	I.I.																			(INDUSTRIAL INJURY)			
	JOHN SMITH	JURY DUTY DEATH IN FAMILY - MOTHER																			THERE ARE NO HOURS SHOWN FOR THIS. ON DEATH IN FAMILY PLEASE SHOW WHO THE DEATH IS AND THE DATE OF FUNERAL.			
(THE ABOVE SHOWS EXACTLY HOW TIME CARDS ARE TO BE PREPARED.)																								
APPROVED (SIGNED BY SUPERVISOR)																								

(SIGNED BY SUPERVISOR)

(THE ABOVE SHOWS EXACTLY HOW TIME CARDS ARE TO BE PREPARED.)

PLEASE SHOW WHO THE DEATH IS AND THE DATE OF FUNERAL.
THERE ARE NO HOURS SHOWN FOR THIS. ON DEATH IN FAMILY
(INDUSTRIAL INJURY)

PLEASE SHOW DAYS EXAMPLE: VACATION 14TH DAY
(IF EMPLOYEE IS TAKING LESS THAN A FULL WEEK (2 DAYS)
(GIVE REASON IF KNOWN)

(ABSENT WITHOUT LEAVE)

(ABSENT WITH LEAVE)

(SCHEDULED DAY OFF)

(DIFFERENTIAL, OR DAY OFF.)

(HOLIDAY ALLOWED - BUT NOT WORKED. PUT IN RATE, SHIFT

(HOLIDAY ACTUALLY WORKED)

(ESTABLISHED RATE - 10 DAYS)

(DETAILED TO A JOB RATE - MUST BE INITIALED)

(MEAL ALLOWANCE - SHOW AMOUNT)

(OVERTIME SHIFT - 1.5x)

(AFTERNOON SHIFT - 1.25x)

(DAY SHIFT - REGULAR RATE)

JOHN SMITH
DEATH IN FAMILY - MOTHER
JURY DUTY
I.I.

VACATION

SICK - 14H

A.W.O.L.

A.W.L.

D.O.

JOHN SMITH

JAMES JONES

JOE DOKES

JOHN DOE

JAMES DOE

JOHN SMITH

JAMES JONES

JOHN DOE

JOHN DOE

JOHN DOE

JOHN DOE

JAMES DOE

JAMES DOE

JOHN SMITH

JOE DOKES

WILSON
JACK
HELMUTH

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PLANT

PLANT

SALARIED EMPLOYE ORGANIZATION CHART
HERCULES CALIF. PLANT

7-1-61

D. F. SPRAGUE, WORKS MANAGER
H. K. HEDRICK, ASST. WKS. MGR.

ENGINEERING

P. M. NETTLETON-MECH. SUPT.
R. J. CANNING-ENGINEER
J. CHRISTFIELD, JR-ENGINEER
J. E. HOPPER, JR. "
T. J. KLEM "
P. RECK-MAINT. & POWER SUPV.

MAINTENANCE

J. CONRADY-MASTER MECHANIC
J. A. FRASER-ASST. MA. MECH.
D. R. HANRAHAN " "
 SR. GENERAL CLERK

OFFICE

G. STAPLES-OFF. MGR.
C. P. WEISS-BUYER
SR. GEN. CLERK
SR. GEN. CLERK
SR. GEN. CLERK
SR. GEN. CLERK
GEN. CLERK
GEN. CLERK
GEN. CLERK
GEN. CLERK
GEN. CLERK
STENOGRAPHER

PERSONNEL & SAFETY

H. M. LYNCH, JR. SUPV.
DeW.H. Kendall-Asst.
E. V. COWAN-NURSE

J. H. HAGAN-LAB. FORE.

EXPLOSIVES DEPT.

C. J. KOEFLER-SUPV.
E. BEARRY-DYN. SUPV.
H. GREEN-DYN. FORE.
O.H. HIGGINS-ASST.FR.
A. WESTFALL-MAG. FORE.

TECHNICAL GROUP

A. MANCHESTER - SUPT.
C. SAUSAMAN - ASST.
O. CHINNOCK- SR. CHEMIST
D. GOWDY, JR.-CHEM.ENGR.

LABORATORY

A. F. GEGAN - SR. CHEM.
J. GORDON - CHEMIST
ASST. CHEMIST
CONTROL CHEMIST
CONTROL CHEMIST
CONTROL CHEMIST
CONTROL CHEMIST
CONTROL CHEMIST
CONTROL CHEMIST

AMMONIA DEPARTMENT
E. S. LUDWIG-SUPV.

AMMONIA

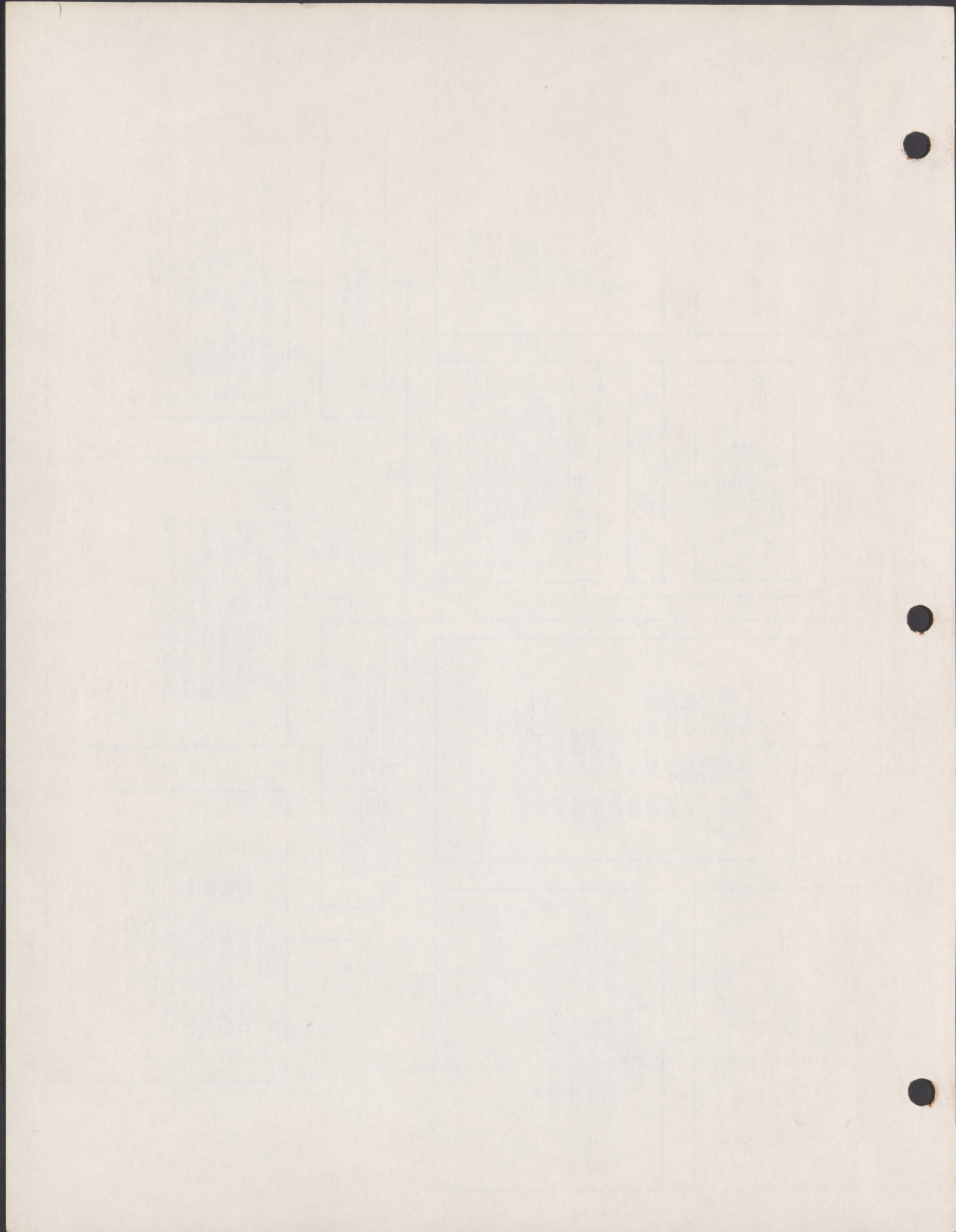
L. INGALLS-ASST. SUPV.
C. DEMPSEY-AREA SUPV.
L. THEILEN-AREA SUPV.
J. COLLINS-SHIFT SUPV.
M. RODRIGUEZ-SHIFT SUPV.
O. B. WELLS-SHIFT SUPV.
M. WHIPPEN-SHIFT SUPV.

METH-FORM.

F. POLTROCK-ASST. SUPV.
K. HOWELL-SHIFT SUPV.
A. JEFFERIS-SHIFT SUPV.
R. LOGAR-SHIFT SUPV.
S. PAMPLIN-SHIFT SUPV.

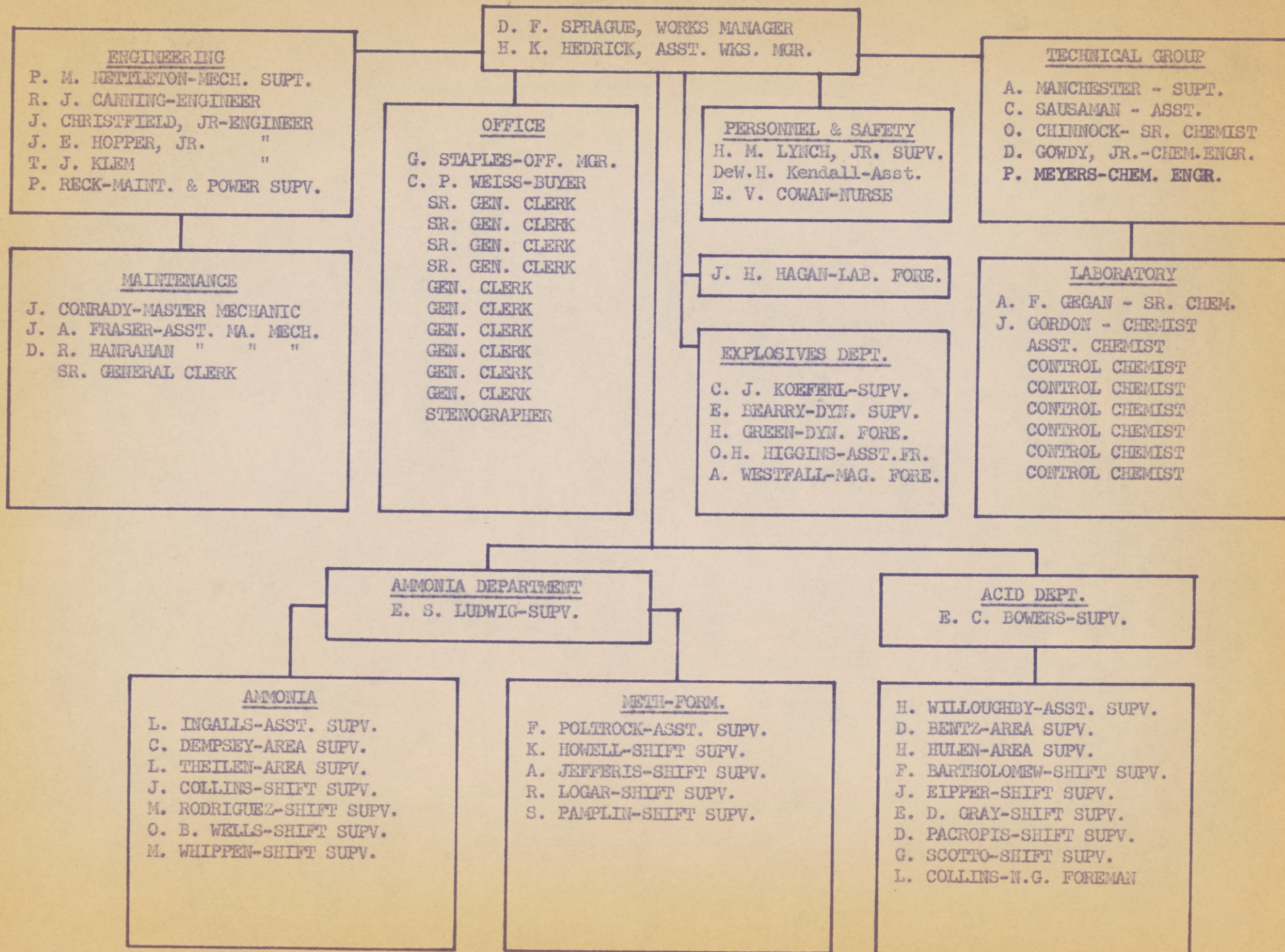
ACID DEPT.
E. C. BOWERS-SUPV.

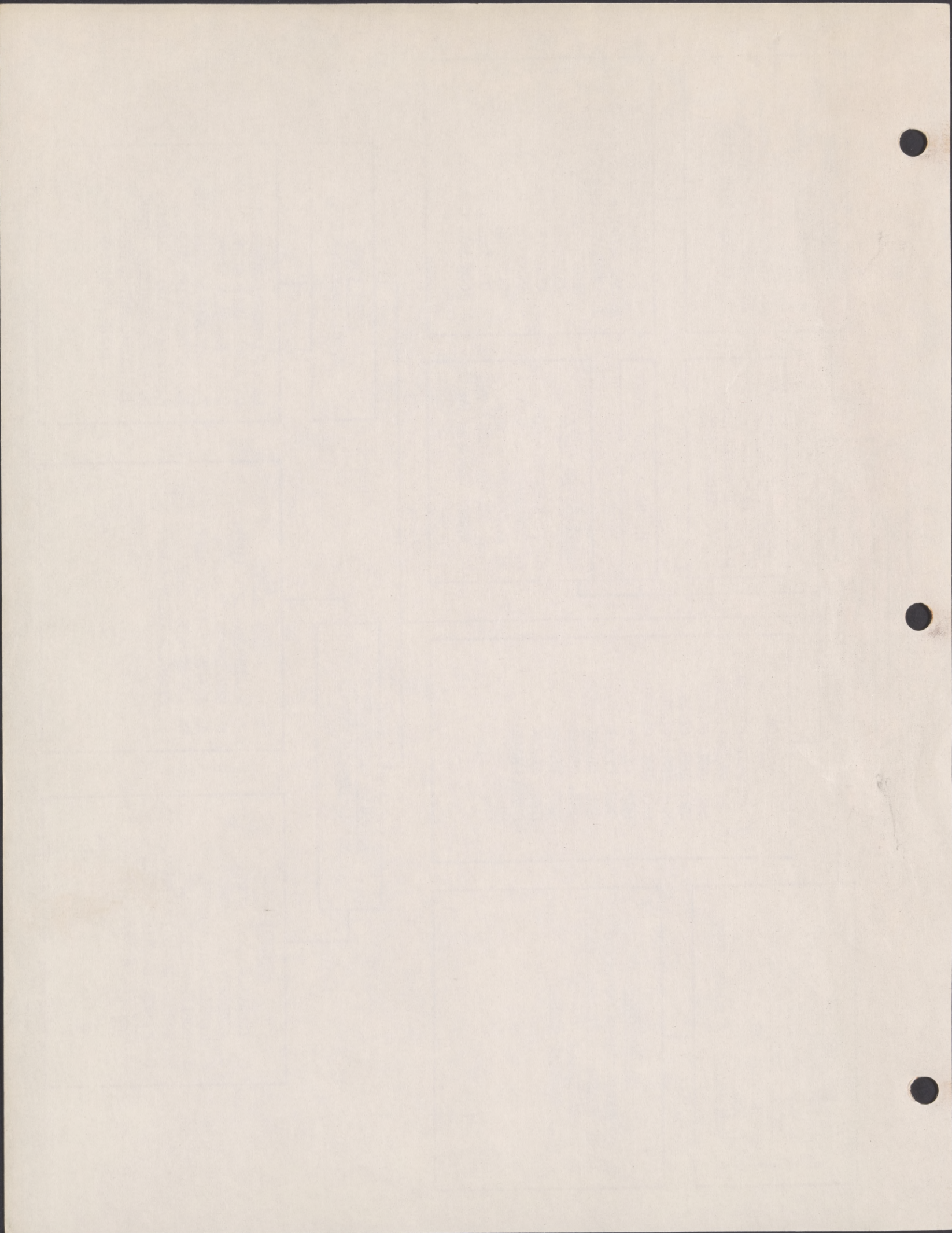
H. WILLOUGHBY-ASST. SUPV.
D. BENTZ-AREA SUPV.
H. HULEN-AREA SUPV.,
F. BARTHOLOMEW-SHIFT SUPV.
J. EIPPER-SHIFT SUPV.
E. D. GRAY-SHIFT SUPV.
D. PACROPIS-SHIFT SUPV.
G. SCOTTO-SHIFT SUPV.
L. COLLINS-N.G. FOREMAN



SALARIED EMPLOYEES ORGANIZATION CHART
HERCULES CALIF. PLANT

7-1-61





M.C.W.

ENGINEERING DEPT. ORGANIZATION CHART

DATE July 20, 1961

WORKS ENGR.

G. L. Woodfield

ENGINEERS

J. H. Mahoney

A. W. Gross

R. F. Paul

DRAFTSMEN

J. M. Dudley

H. Adkison

STENOGRAPHER

J. Sheridan

MAINT. ENGR

E. L. Swett

UTILITY ENGR

C. R. Nuss

MASTER MEC.

J. C. Krigbaum

ELECT. INST. SUPR

P. L. Marsh

AREA MAINT. SUPR

PE A. Utterback

MAINT.

HOURLY 110

SALARY 8

ENGR. UTILITY

HOURLY 25

SALARY 10

TOTAL ENGR.

HOURLY 135

SALARY 18

TOTAL 153

MAINT. SUPR

H. V. Holmgren

LABOR FORE

L. Sutton

PREV MAINT ENGR

MECHANICS

PE 6

PWR 2

NH3

INSULATING 6

CARPENTER 2

MACHINIST 10

MILLWRIGHT 11

PAINT 2

PIPEFITTING 9

WELDING 12

LABORERS 38

CLERK

MECH. INSP.

ELECT. INSP

ELECT. FORE

V. Stumbaugh

INST. FORE

T. J. Grimes

ELECT. 6

INSTR 6

POWER

DAY ENGR 1

WATCH ENGR 4

OPER 10

COAL HANDLERS 5

WATER

WTR. TR. FORE

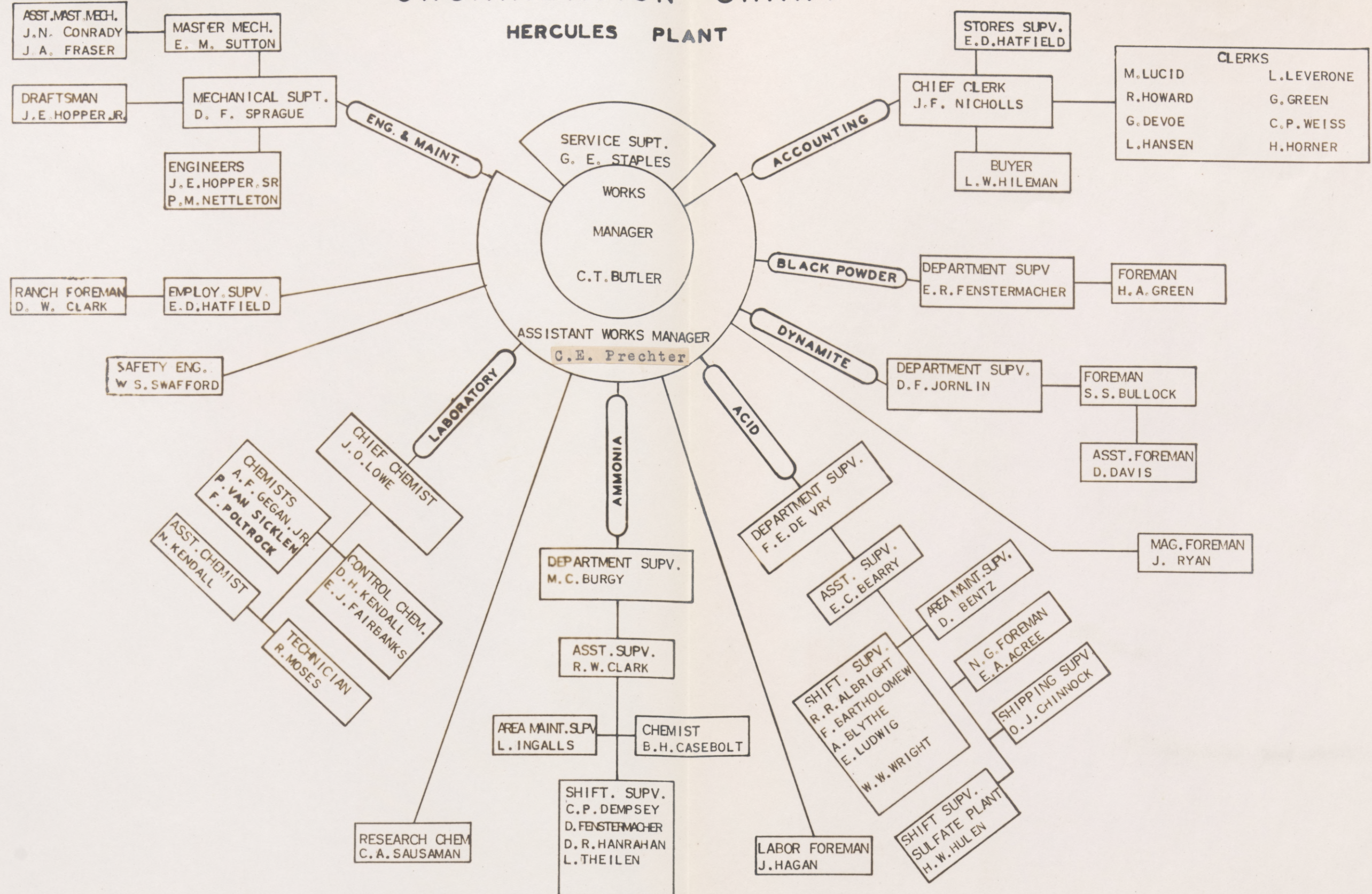
L. G. Miller

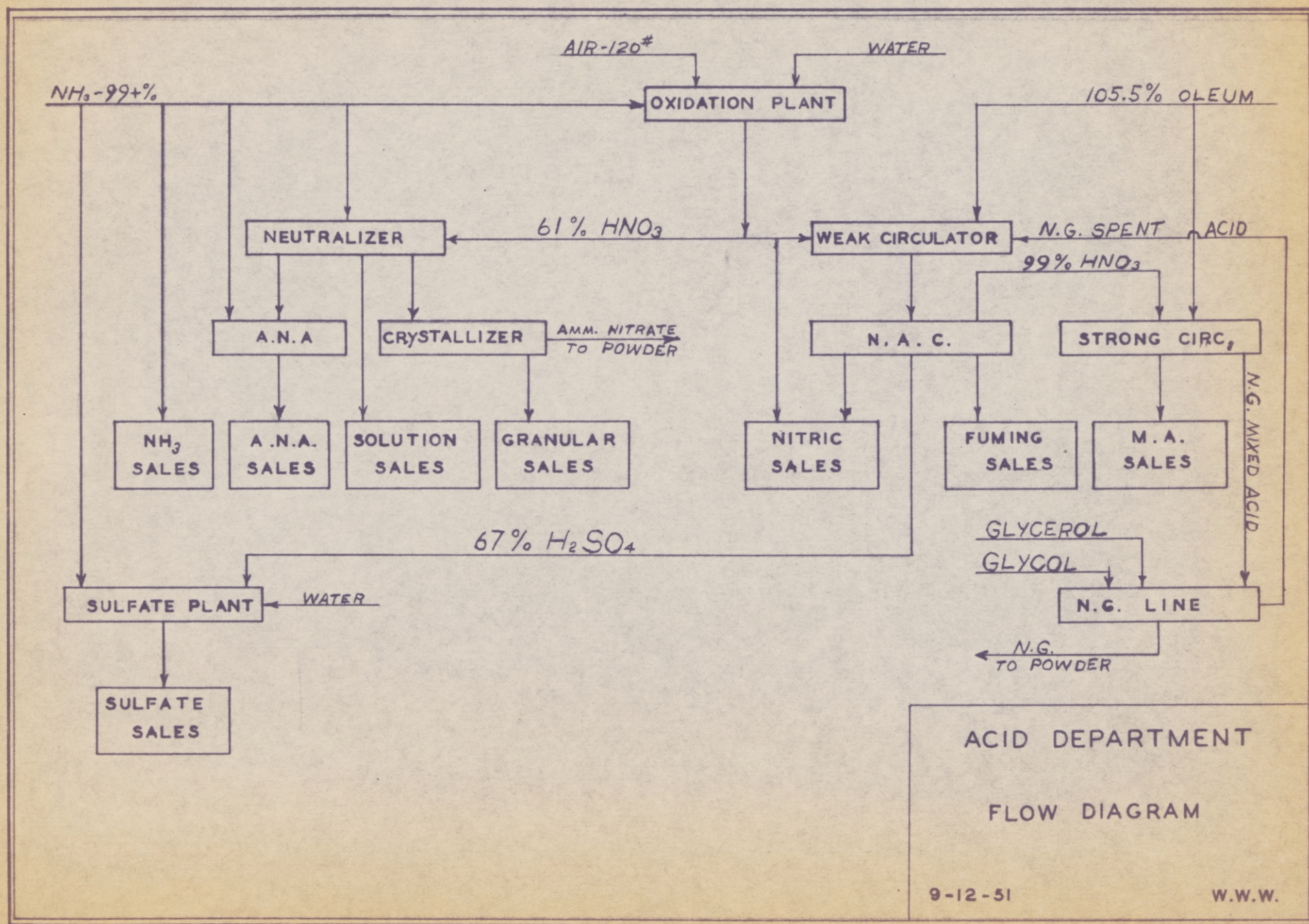
OPER 5

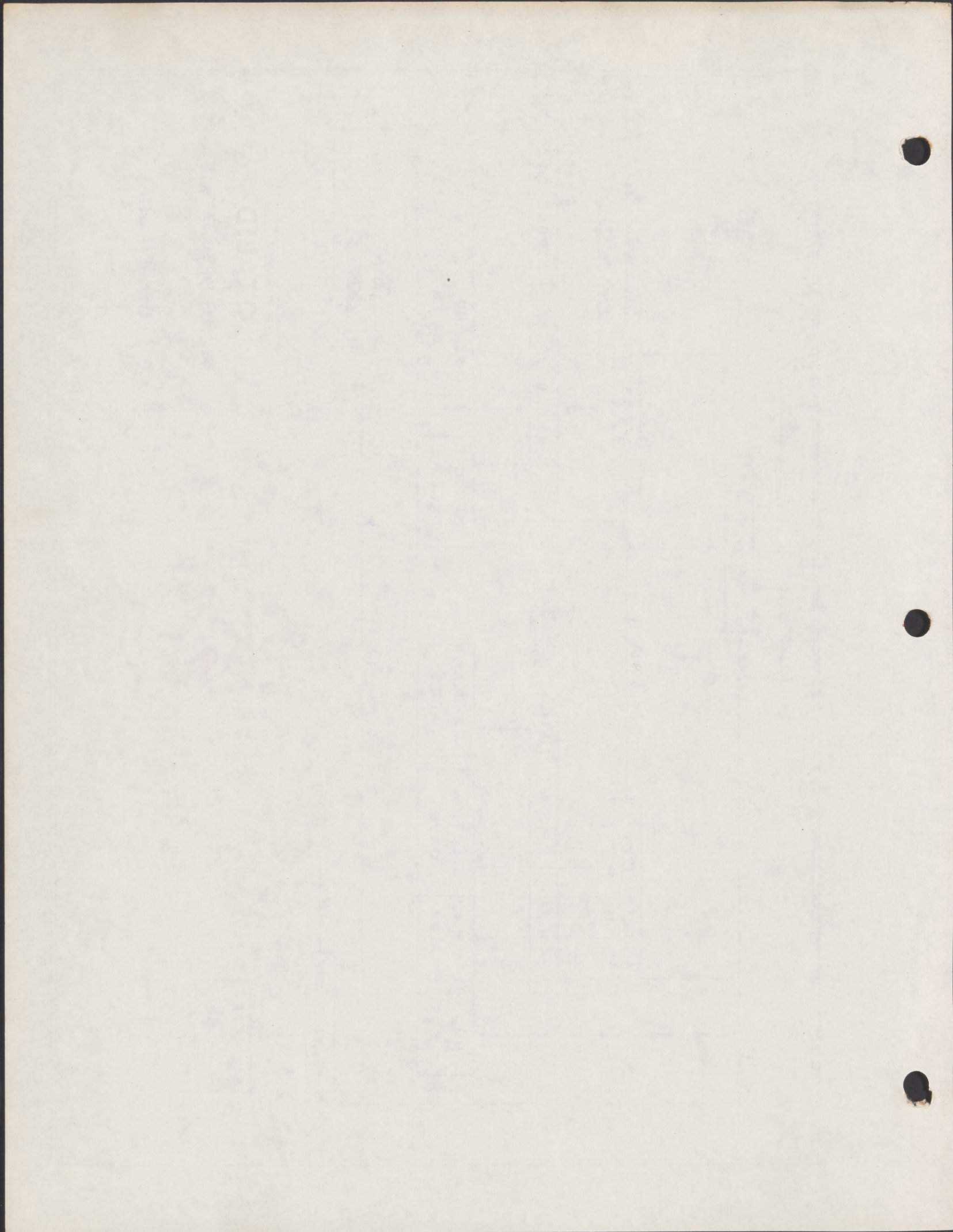
HERCULES POWDER CO.
HERCULES PLANT
JUL 28 1961

ORGANIZATION CHART

HERCULES PLANT

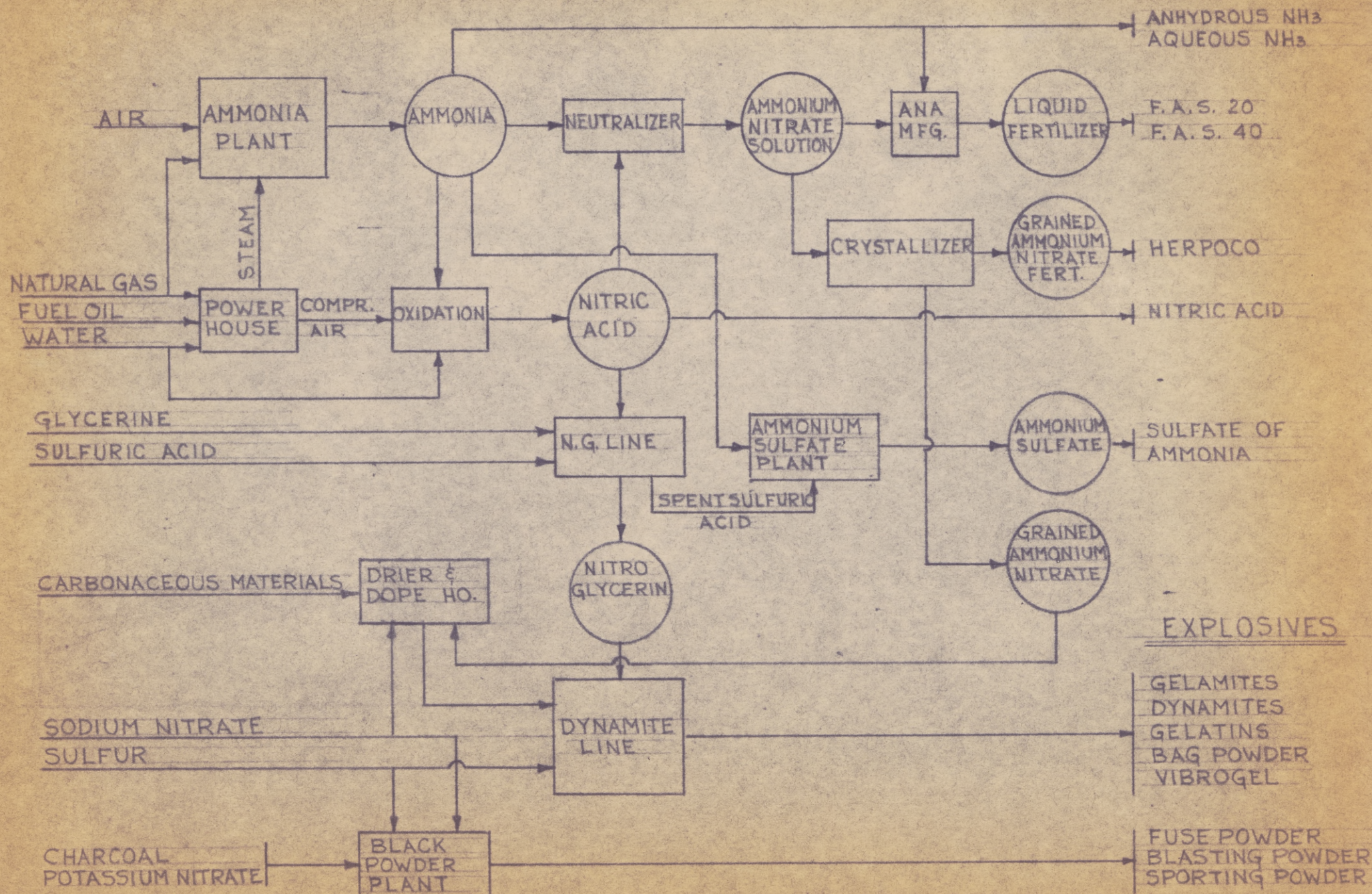


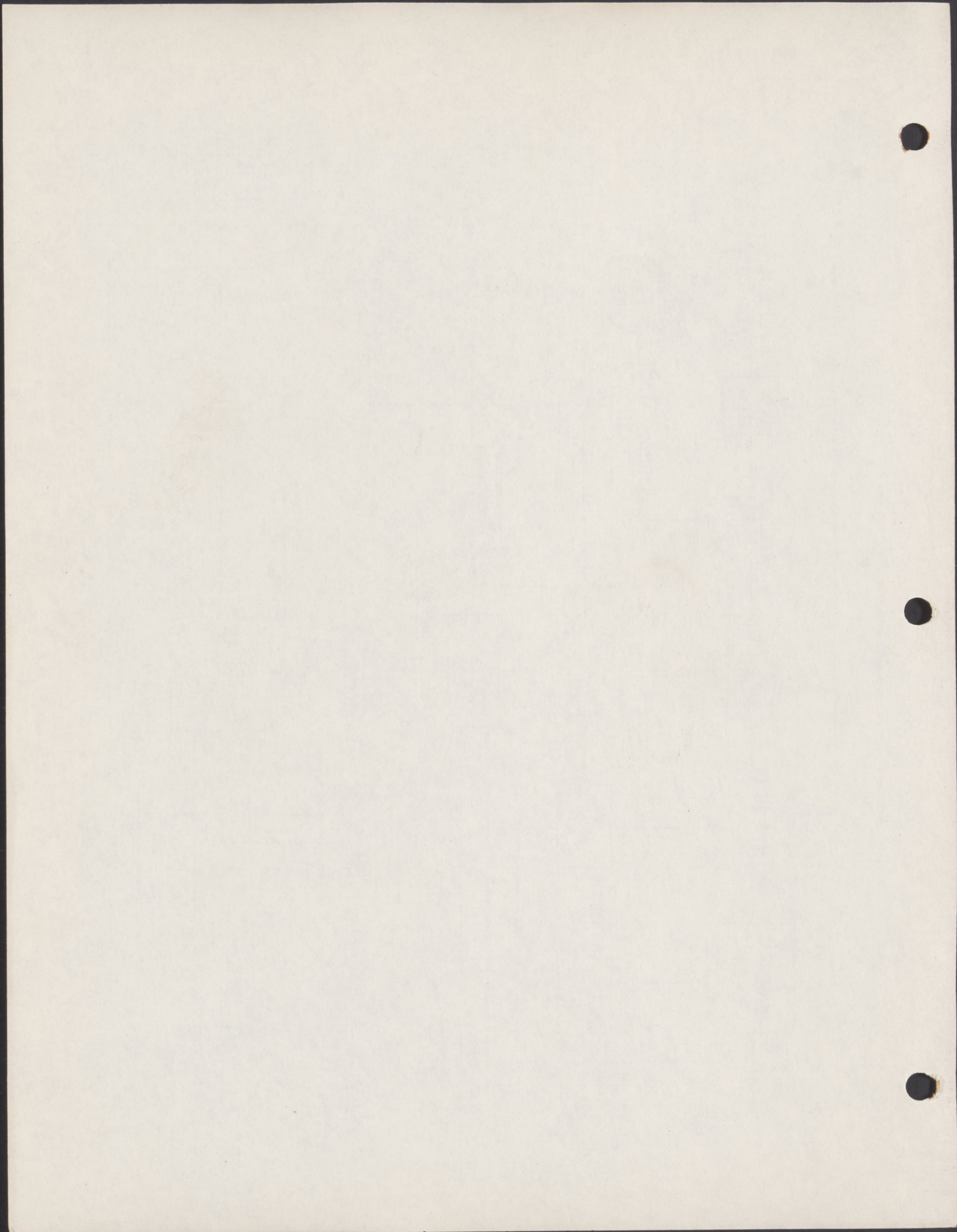




HERCULES MATERIAL FLOW DIAGRAM

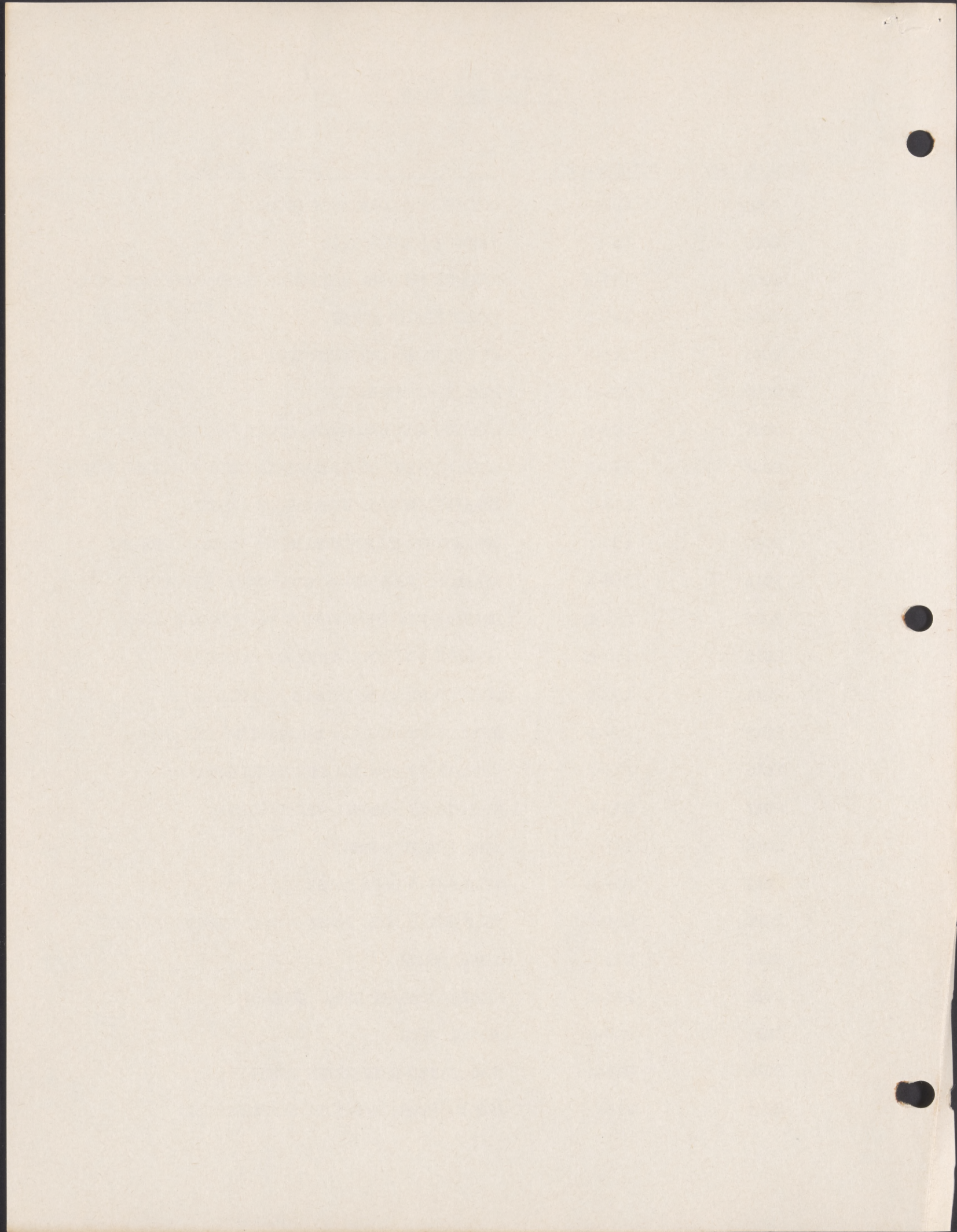
PRODUCTS SOLD FERTILIZERS





ACCOUNT NUMBER INDEX
HERCULES PLANT

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
2001	68-B	GLYCERIN UNLOADING STATION
2002	80-C	SAWDUST BLOWER SHED
2003	133-B	NITRATE OF SODA UNLOADING EQUIPMENT/BULK SODA/
2004	145-C	WHITE NITRIC PLANT
2005	147-B	NITRIC ACID CONCENTRATOR
2006	156-C	PIPE DOPE MIXER
2007	158-G	LOADING AND UNLOADING STATION/MIXED ACID/
2008	158-H	ACID LOADING STATION/MIXED ACID & STRONG NITRIC/
2009	158-I	LOADING STATION NITRATE OF AMMONIA
2010	158-J	LOADING STATION/NITRATE OF AMMONIA LIQUOR/
2011	158-K	ANA LOADING STATION & AMMONIUM NITRATE
2012	158-L	LOADING AND UNLOADING STATION/MIXED ACID/
2013	158-M	LOADING STATION/ANHYDROUS AMMONIA/
2014	158-N	LOADING STATION/SULPHURIC ACID/TRUCK
2015	174-B	NITRATE OF AMMONIA EVAPORATING PAN SHED
2016	175-A	NITRATE OF AMMONIA CRYSTALLIZER/OLD/
2017	175-B	NITRATE OF AMMONIA CRYSTALLIZER
2018	187	SACK REPAIR HOUSE
2019	201-B	PULP DRY & DOPE HOUSE
2020	201-B1	PULP DRY & DOPE HOUSE - HOD RECEIVING HOUSE
2021	203	SHELL HOUSE
2022	208-J	REFUSE SHED/AT BLDG. #289-c/
2023	208-K	REFUSE SHED
2024	212-A	N.G. MIXED ACID WEIGH HOUSE
2025	214	D.N.T. STORAGE/D.N.T. HEATER HOUSE/



<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
2026	215-B	D.N.T. HEATER HOUSE
2027	215-C	D.N.T. HEATER HOUSE
2028	218-A	COTTON SCREENING HOUSE
2029	219-B	BOX FACTORY
2030	221	POWDER LINE WASH HOUSE
2031	225	SULPHUR GRINDING HOUSE
2032	226-A	SULPHUR GRINDING HOUSE - MOTOR HOUSE
2033	228-B	L GLYCERIN PLANT
2034	230-B	D.N.T. WARMING HOUSE
2035	231	SPENT ACID STORE - BIAZZI
2036	234-D	HEATER AND CHANGE HOUSE
2037	234-E	HEATER AND CHANGE HOUSE
2038	234-F	HEATER AND CHANGE HOUSE
2040	234-H	HEATER HOUSE/FOR BLDG. #219-B/
2041	242-A	NITRATING HOUSE
2042	242-B	NITRATING HOUSE - CONTINUOUS
2043	242-B1	NITRATING HOUSE - CONTINUOUS - CONTROL HOUSE
2044	244-A	N.G. GUTTER/NITRATOR TO SEPARATOR/
2045	244-F	N.G. GUTTER
2046	244-G	N.G. GUTTER
2047	244-H	N.G. GUTTER - NIT. HOUSE - CONTINUOUS
2048	245-B	SEPARATING HOUSE
2049	246-A	N.G. NEUTRALIZING & STORE HOUSE
2050	247	NITRATOR SUPPLY HOUSE - CONTINUOUS
2051	254-A	OUTSIDE CATCH TANK/NITRATING HOUSE - BLDG. 242/
2052	254-I	OUTSIDE CATCH TANK & SLIM HOUSE/BLDG. 246-A/
2053	254-J	OUTSIDE CATCH TANK/BLDG. 245-B/

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
2054	254-K	OUTSIDE CATCH TANK HOUSE - CONTINUOUS
2055	262-A	GELATIN MIX HOUSE - SCHROEDER NO. 1
2056	264-E	GELATIN CARTRIDGE HOUSE - NO. 2
2057	264-F	GELATIN CARTRIDGE HOUSE - NO. 1
2058	264-G	GELATIN CARTRIDGE HOUSE - NO. 3
2059	265-F	GELATIN CARTRIDGE HOUSE - MOTOR HOUSE
2060	265-G	GELATIN CARTRIDGE HOUSE - NO. 2 - MOTOR HOUSE
2061	265-H	GELATIN CARTRIDGE HOUSE - MOTOR HOUSE
2062	270-B	BOX PACK HOUSE - GELATIN & WAXING SHED
2064	274	GELATIN MIX HOUSE - TALLEY
2065	275	GELATIN MIX HOUSE - TALLEY - MOTOR HOUSE
2066	277	CUTTING HOUSE
2067	278	GELATIN MIX HOUSE - EVERDUR - MOTOR HOUSE
2068	281-B	WHEELING WALK - TEMPORARY NEUTRALIZER
2069	281-C	WHEELING WALK - DYNAMITE TALLEY MIX
2070	281-D	WHEELING WALK - GELATIN TALLEY MIX
2071	284-A	DYNAMITE MIX HOUSE - TALLEY
2072	285-A	DYNAMITE MIX HOUSE - TALLEY - MOTOR HOUSE
2073	286-B	DYNAMITE CARTRIDGE HOUSE - HALL NO. 1
2074	286-E	DYNAMITE CARTRIDGE HOUSE - HALL NO. 3
2075	287-E	DYNAMITE CARTRIDGE HOUSE - HALL MOTOR HOUSE
2076	288-C	HEATER AND CHANGE HOUSE
2077	288-D	HEATER AND CHANGE HOUSE
2078	289-B	DYNAMITE CARTRIDGE HOUSE - KIMBER
2079	289-C	BAG PACK HOUSE - DYNAMITE
2080	291	N.G. WHEELING WALK ELEVATOR
2081	292-C	BOX PACK HOUSE - DYNAMITE

100-1	100-1	100-1
100-2	100-2	100-2
100-3	100-3	100-3
100-4	100-4	100-4
100-5	100-5	100-5
100-6	100-6	100-6
100-7	100-7	100-7
100-8	100-8	100-8
100-9	100-9	100-9
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100-44	100-44	100-44
100-45	100-45	100-45
100-46	100-46	100-46
100-47	100-47	100-47
100-48	100-48	100-48
100-49	100-49	100-49
100-50	100-50	100-50

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
2082	294-B	BOX PACK HOUSE - PARAFFIN MELT HOUSE
2083	294-C	BOX PACK HOUSE - GELATIN - PARAFFIN MELT HOUSE
2084	296-B	BOX PACK HOUSE - LINING PAPER STORE
2085	303-A	AIR CONDITIONING AND CHANGE HOUSE
2086	303-B	AIR CONDITIONING AND CHANGE HOUSE
2087	305	DYNAMITE STUB HOUSE
2088	700-A	LOADING STATION FOR AMMONIUM NITRATE ANA & WEAK
2089	700-B	AMMONIA LOADING COMPRESSOR
2090	700-C	AMMONIA LOADING STATION
2091	700-D	AMMONIA LOADING COMPRESSOR
2092	702	ANHYDROUS AMMONIA & WEIGH HOUSE
2093	703	AMMONIA OXIDATION HOUSE - ACID WEIGH & AMMONIA
2094	708	STRONG NITRIC ACID CIRCULATORS & OLEUM CIRCULATOR
2095	710	CONDENSATE TANK - FOR KETTLE JACKETS AT CRYSTALLIZER
2096	720	ANA MIX PLANT
2097	725	POWER RECOVERY BUILDING
2098	730	LOADING STATION - UREA NITRATE - TRUCK
2099	732	UREA PROCESS BLDG.
2100	733	UREA - CONTROL BUILDING
2102	801	CATALYST TREATMENT AND PREPARATION BUILDING &
2103	803	PURIFICATION AREA CONTROL HOUSE
2104	805	EXPERIMENTAL CRACKING FURNACE
2105	806-A	FLUE GAS COMPRESSOR HOUSE #1
2106	806-B	FLUE GAS COMPRESSOR HOUSE #2
2107	807	HYDROGEN PRODUCTION
2108	809-B	MIXED GAS COOLER
2109	809-C	MIXED GAS COOLER

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
2110	812	GAS AREA CONTROL HOUSE
2111	826	LIME STORAGE AND CAUSTICIZERS
2112	850	COMPRESSOR HOUSE
2113	851	GAS PURIFICATION TOWERS AND EQUIPMENT
2114	852-A	PURIFICATION PUMP SHED
2115	852-B	PURIFICATION PUMP SHED
2116	853-A	CO2 RELEASE TANK AND SUMP
2117	853-B	CO2 RELEASE TANK AND SUMP
2118	853-C	CO2 RELEASE TANK AND SUMP
2119	854-A	DEGASIFICATION TOWER - UNIT #1
2120	854-B	DEGASIFICATION TOWER - UNIT #2
2121	857-A	B-LIQUOR STRIPPING TOWER
2122	857-B	B-LIQUOR STRIPPING TOWER
2123	870	SYNTHESIS AREA
2124	871	CARTRIDGE CHARGE HOUSE
2125	872	FORCE GAS SCRUBBER
2126	875-A	TRUCK LOADING FACILITIES B LIQUOR & ANHYDROUS AMMONIA
2127	875-B	TRUCK SCALE - ANHYDROUS AMMONIA & AMMONIUM NITRATE
2128	875-C	LOADING DOCK - TRUCK - AQUA AMMONIA & FAS-20
2129	876	B LIQUOR STORAGE/TRUCK SCALE/
2130	750	HI FORM BLDG.
2131	751	NITROFORM BLDG.
2132	752	NITROFORM BAG & STORAGE
2133	2901	CRACKING FURNACE AREA
2134	2903	TANK CAR & TRUCK LOADING STATION
2135	2904	CONTROL, SWITCH HOUSE AND LABORATORY
2136	2905	COMPRESSOR HOUSE

CONCRETE WORK	200	213
CEILING, GUTTER HOUSING AND LANTERN	204	213
PAVE CAR & TRUCK PARKING LOT	203	214
GRADING PAVING AND	201	213
REPAIRS AND STORAGE	198	213
REPAIRS ELEC.	171	213
REPAIRS	120	213
2 LUGS (REPAIR/REPLACE)	816	213
LOADING DOCK - STOCK - ELEC. (REPAIR & REPLACE)	815-C	213
TRUCK HOUSING - AND/OR REPAIRS & REPAIRS	815-B	213
TRUCK LANDING (REPAIRS & REPAIRS)	815-A	213
PIPER AND CONCRETE	812	213
CABLES - CABLES	811	213
STRENGTH AREA	810	213
5-1100S CRIPPLE JOIST	807-B	213
4-1100S CRIPPLE JOIST	807-A	213
REPAIRS AND REPAIRS - ELEC. &	804-B	213
REPAIRS AND REPAIRS - ELEC. &	804-A	213
CONCRETE WORK AND REPAIRS	801	213
CONCRETE WORK	800	213
CONCRETE WORK	800	213

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
2137	2906	COMPRESSOR CONTROL HOUSE
2138	2907	SYNTHESIS AREA
2139	2908	METHANOL PURIFICATION AREA
2140	2909	FORMALIN AREA
2141	775	NITROGEN TETROXIDE PILOT PLANT
2142	776	REFRIGERATION - NITROGEN TETROXIDE PILOT PLANT
2143	777	COOLING TOWER - NITROGEN TETROXIDE PILOT PLANT
2144	778	NITROGEN TETROXIDE PLANT
2145	2145	AMMONIA VAPORIZER
8100	1	OFFICE
8101	3	LABORATORY
8102	4	POWDER LABORATORY
8103	7	CLUB HOUSE
8104	20	COMBINED SHOPS
8105	21	PIPE AND WELD SHOP
8106	22	REPAIR SHOP - AUTO & TRAM
8107	23	ELECTRIC SHOP
8108	24-A	LEAD SHOP
8109	29-B	COMBINED LUMBERSHED, CAR & REPAIR SHOP
8110	36	LEAD WORKING PLATFORM
8111	123-D	GATE HOUSE AND GUARD HEADQUARTERS
8112	145-F	OFFICE & STORE - WHITE NITRIC PLANT
8113	156-B	REPAIR SHOP - ACID
8114	205	OFFICE - POWDER LINE
8115	207-A	REPAIR SHOP - POWDER LINE
8116	323	MAGAZINE OFFICE
8117	8117	METHANOL AREA SHOP

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
8118	8118	SALES OFFICE
8202	12-B	GASOLINE STATION - TRUCKS & CARS
8203	12-C	GASOLINE STATION - LOCOMOTIVE
8204	30-A	CHANGE HOUSE - SHOPS
8205	31-C	LAVATORY - SHOPS
8206	34-B	GARAGE
8207	45-B	GAS CYLINDER STORE
8208	66	GASOLINE STORE
8209	67-A	HARDWOOD STORE
8210	73-A	CONSTRUCTION STORE
8211	74-A	OIL STORE
8212	74-B	OIL STORE
8213	75-A	PAINT SHOP AND STORE - SHOP AREA
8214	75-B	PAINT & OIL STORE - AMMONIUM SULPHATE AREA
8215	75-C	PAINT & OIL STORE - OXIDATION AREA
8217	78	SOLVENT STORAGE - LABORATORY
8218	84	SUPPLIES STORE
8219	85-B	MISCELLANEOUS STORE
8220	89	GENERAL STORAGE PLATFORM
8221	114-A-1	OUTSIDE TOILET/NEAR BUILDING 292-C/
8222	114-A-2	OUTSIDE TOILET/NEAR BUILDING 284-A/
8223	114-A-3	OUTSIDE TOILET/NEAR BUILDING 264-F/
8224	114-A-4	OUTSIDE TOILET/NEAR BUILDING 264-G/
8225	114-A-5	OUTSIDE TOILET/NEAR BUILDING 289-C/
8226	114-A-6	OUTSIDE TOILET/MAGAZINE AREA/
8229	123-A	TELEPHONE BOOTH AT POWDER LOADING STATION
8230	155-B	LAUNDRY

LAURENCE	157-1	6230
LAURENCE	157-1	6231
LAURENCE	157-1	6232
LAURENCE	157-1	6233
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LAURENCE	157-1	6297
LAURENCE	157-1	6298
LAURENCE	157-1	6299
LAURENCE	157-1	6300

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
8231	155-D	CRYSTALLIZER REPAIR SHOP
8232	155-F	CHANGE HOUSE - ACID AND AMMONIA AREA
8233	155-G	CHANGE HOUSE - CRYSTALLIZER AREA
8234	156-A	RECLAIMED EMPTY SACK STORE
8235	206-U	CHANGE HOUSE - DOPE HOUSE
8236	206-V	CHANGE HOUSE - POWDER LINE
8237	207-B	SPARE PARTS HOUSE/NEAR #3 HALL/
8238	251-B	CHANGE HOUSE - H.G. LINE
8239	298-A	SPARE PARTS HOUSE
8240	298-B	SPARE PARTS HOUSE
8241	298-C	SPARE PARTS HOUSE
8242	298-D	SPARE PARTS HOUSE
8243	310	GENERAL STORE FOR MAGAZINES
8244	311	CAR BLOCKING SHED
8245	316	GENERAL STORE
8246	321	CHANGE HOUSE - MAGAZINE
8247	324	MAGAZINE CAR CURTAIN SHED
8248	714	PAINT SHED
8501	101	ENGINE ROOM
8502	102	BOILER HOUSE
8503	802	EMERGENCY LIGHTING BUILDING - AMMONIA PLANT
8526	110-K	TRANSFORMER HOUSE/BOX FACTORY/
8527	110-L	TRANSFORMER STATION/POWDER LINE/
8528	110-M	TRANSFORMER STATION/H.G. LINE/
8529	110-N	TRANSFORMER AND SWITCH HOUSE/MAIN/
8530	110-P	TRANSFORMER STATION/NEAR AMMONIA CRYST./
8531	110-Q	TRANSFORMER STATION - POWER HOUSE

TRANSFORMER STATION - POWER HOUSE	110-6	8237
TRANSFORMER STATION/NEAR ASHLEY CREEK	110-7	8230
TRANSFORMER AND SWITCH HOUSE/MAIN	110-8	8238
TRANSFORMER STATION/N.E. LINE	110-9	8239
TRANSFORMER STATION/TURNED LINE	110-1	8241
TRANSFORMER HOUSE/NEE BACKYARD	110-2	8235
EMERGENCY LIGHTING BUILDING - ASHLEY PLANT	802	8203
WATER HOUSE	108	8208
WATER HOUSE	109	8201
PAINT SHOP	114	8248
MACHINE OIL CRUSHING SHOP	304	8244
CHARGE HOUSE - MAGAZINE	307	8246
GENERAL STORE	216	8242
CAR REPAIRING SHOP	317	8247
GENERAL STORE FOR INSPECTION	218	8243
WATER TANKS HOUSE	208-2	8245
WATER TANKS HOUSE	208-3	8240
WATER TANKS HOUSE	208-4	8239
CHARGE HOUSE - N.E. LINE	221-2	8238
CHARGE HOUSE/NEAR 45 MILE	207-2	8231
CHARGE HOUSE - POWER LINE	200-4	8236
CHARGE HOUSE - DATE HOUSE	200-2	8232
CHARGE HOUSE/NEAR BACK STONE	192-4	8234
CHARGE HOUSE - CORRECTIONAL AREA	192-0	8233
CHARGE HOUSE - WIND AND MAGNETIC AREA	192-2	8235

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
8532	110-R	TRANSFORMER STATION - BOX FACTORY
8533	110-S	TRANSFORMER STATION - SHOPS
8534	110-T	TRANSFORMER STATION - PULP DRY
8535	110-U	TRANSFORMER STATION - AMMONIUM SULPHATE PLANT
8536	110-V	TRANSFORMER STATION - MAIN PUMP HOUSE
8537	110-W	TRANSFORMER STATION - UREA PLANT
8538	2920	SUB-STATION
8560	103-J	PUMP HOUSE - SEWAGE #1
8561	103-K	PUMP HOUSE - SEWAGE #2
8576	808	GAS MEETING STATION
8601	103-B	PUMP HOUSE AND PUMPING BASIN/SALT WATER/
8602	103-C	PUMP HOUSE/SALT/
8603	103-D	PUMP HOUSE/FIRE WATER/
8604	103-E	PUMP HOUSE/SERVICE WATER/
8605	103-I	PUMPING STATION/SULPHATE PLANT/
8606	103-L	PUMP HOUSE - MAIN WATER SUPPLY
8607	107-D	COOLING TOWER/REFRIGERATION PLANT/
8608	107-E	COOLING TOWER/OXIDATION/
8609	107-F	COOLING TOWER/OXIDATION/
8610	107-G	COOLING TOWER/OXIDATION/
8611	107-H	COOLING TOWER #1/OXIDATION COMPRESSOR/
8612	107-I	COOLING TOWER #2/OXIDATION COMPRESSOR/
8613	107-J	COOLING TOWER #3/OXIDATION COMPRESSOR/
8614	107-K	COOLING TOWER/OXIDATION/
8615	122-A	WATER STORAGE TANK
8616	122-B	WATER STORAGE TANK/ELEVATED/
8617	734	UREA - COOLING TOWER

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
8618	810	GAS AREA WATER PUMPS
8619	811-A	SYNTHESIS AND COMPRESSOR WATER COOLING TOWER-UNIT #1
8620	811-B	GAS AREA WATER COOLING TOWER - UNIT #1
8621	811-C	GAS AREA WATER COOLING TOWER - UNIT #2
8622	811-D	SYNTHESIS AND COMPRESSOR WATER COOLING TOWER-UNIT #2
8623	811-E	SYNTHESIS AND COMPRESSOR WATER COOLING TOWER
8624	855	SYNTHESIS AND COMPRESSOR COOLING WATER PUMPS
8625	856	SYNTHESIS AND COMPRESSOR WATER COOLING TOWER-UNIT #1
8626	2902	COOLING TOWER
8627	2915	COOLING TOWER - NITROFORM
8681	103-E	PUMP HOUSE/FUEL OIL/
8691	104-A	REFRIGERATION HOUSE
8692	104-B	REFRIGERATION HOUSE
8693	105-B	BRINE STORAGE
8701	336	STEAM LINES
8702	331	ELECTRIC LINES
8703	332-A	TELEPHONE LINES
8704	342	GAS LINES/NATURAL AND PROCESS LINES/
8705	330	WATER LINES AND FIRE PROTECTION
8708	340	FUEL OIL LINES
8710	337	AIR LINES
8711	349	SEWERS, DRAINS AND DITCHES
8712	8712	PIPE SUPPORTS
8713	341	SALT WATER LINES
8800	333	MIXED ACID LINES
8801	256	SPENT ACID LINE - COMBINED WITH 334
8801	334	SPENT ACID LINES - COMBINED WITH 256

WATER VAPOR LINES - CONDENSED WITH 250	334	8301
WATER VAPOR LINES - CONDENSED WITH 334	335	8302
WATER VAPOR LINES	337	8313
WATER VAPOR LINES	338	8300
WATER VAPOR LINES	347	8313
WATER VAPOR LINES	348	8313
WATER VAPOR LINES	349	8313
WATER VAPOR LINES	350	8309
WATER VAPOR LINES	351	8313
WATER VAPOR LINES	352	8313
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WATER VAPOR LINES	375	8313
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WATER VAPOR LINES	377	8313
WATER VAPOR LINES	378	8313
WATER VAPOR LINES	379	8313
WATER VAPOR LINES	380	8313
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WATER VAPOR LINES	382	8313
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WATER VAPOR LINES	392	8313
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WATER VAPOR LINES	397	8313
WATER VAPOR LINES	398	8313
WATER VAPOR LINES	399	8313
WATER VAPOR LINES	400	8313

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
8802	335	SODA LINES
8803	338	AMMONIA LIQUOR LINES
8804	339	OUTSIDE ACID LINES
8805	343	UREA LINES
8806	346	GLYCERIN LINES
8807	359	ANHYDROUS AMMONIA LINES
8808	360	OUTSIDE AMMONIUM NITRATE LINES
8809	361	PROCESS LINES - ANA - PLANT
8810	362	PROCESS LINES - METHANOL PRODUCTS
9000	112	UNLOADING HOIST
9100	119-C-D-E	FUEL OIL STORAGE
9101	119-M	FUEL OIL STORAGE
9102	119-N	FUEL OIL STORAGE
9103	119-O	FUEL OIL STORAGE
9104	119-P	FUEL OIL STORAGE
9105	159-N	CONCENTRATED MIX STORAGE
9106	159-O	SULPHURIC ACID STORAGE - DENITRATED
9107	159-R	GLYCERIN STORAGE
9108	159-S	GLYCERIN STORAGE
9109	159-T	N. G. SPENT BLEND TANK
9110	160-G	OLEUM STORAGE
9111	160-H	MIXED ACID STORAGE
9112	160-I	OLEUM STORAGE
9113	160-J	MIXED ACID STORAGE
9114	162	SPENT ACID STORAGE
9115	163-A	FUMING NITRIC ACID STORAGE - RED NITRIC
9116	163-B	FUMING NITRIC ACID STORAGE - WHITE NITRIC

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
9117	163-C	WHITE NITRIC ACID STORAGE
9118	163-D	WHITE NITRIC ACID STORAGE
9119	163-E	WHITE NITRIC ACID STORAGE
9120	163-F	WHITE NITRIC ACID STORAGE
9121	163-G	FUMING NITRIC ACID STORAGE/RED NITRIC DISTILLATE/
9122	163-H	FUMING NITRIC ACID STORAGE/INHABITED RED NITRIC/
9123	163-J	WHITE NITRIC ACID STORAGE
9124	172-A-1&2	GLYCERIN & GLYCOL STORAGE TANKS
9125	172-C	AMMONIA LIQUOR STORAGE/B LIQUOR/
9126	173-C	NEUTRAL LIQUOR STORAGE
9127	173-D	NEUTRAL LIQUOR STORAGE/AT CRYSTALLIZER/
9128	173-E	NEUTRAL LIQUOR STORAGE/AT CRYSTALLIZER/
9129	173-H	N. A. L. STORAGE
9130	173-I	N. A. L. STORAGE
9131	173-J	N. A. L. STORAGE
9132	173-K	N. A. L. STORAGE
9133	211	N.G. MIXED ACID STORAGE
9134	705	AMMONIUM NITRATE STORAGE TANK/FOR ANA/
9135	721	INDUSTRIAL AMMONIA STORAGE TANK/TRUCK LOADING/
9136	731-A	UREA N.A.L. WORK TANK
9137	731-B	UREA STORAGE TANK/83%/
9138	731-C	UREA - UN 32 TANKS
9139	731-D	UREA - AMMONIA WORK TANK
9140	753-A	AMMONIUM SULPHATE - EMERGENCY SOLUTION STORAGE TANK
9141	753-B	AMMONIUM SULPHATE - EMERGENCY SOLUTION STORAGE TANK
9142	753-C	AMMONIUM SULPHATE - B LIQUOR STORAGE TANK
9143	753-D	AMMONIUM SULPHATE - SULPHURIC ACID STORAGE

WITH MIXED ACID STORAGE	103-0	9117
WITH MIXED ACID STORAGE	103-0	9118
WITH MIXED ACID STORAGE	103-0	9119
WITH MIXED ACID STORAGE	103-1	9120
WITH MIXED ACID STORAGE/NO MIXED ACID STORAGE	103-0	9121
WITH MIXED ACID STORAGE/NO MIXED ACID STORAGE	103-0	9122
WITH MIXED ACID STORAGE	103-1	9123
GLASS & GLASS STORAGE TANK	113-A-101	9124
AMMONIA LIQUOR STORAGE/NO LIQUOR	113-0	9125
NEUTRAL LIQUOR STORAGE	113-0	9126
NEUTRAL LIQUOR STORAGE/AT CRYSTALLIZATION	113-0	9127
NEUTRAL LIQUOR STORAGE/AT CRYSTALLIZATION	113-0	9128
N. A. L. STORAGE	113-0	9129
N. A. L. STORAGE	113-1	9130
N. A. L. STORAGE	113-1	9131
N. A. L. STORAGE	113-2	9132
N. A. MIXED ACID STORAGE	113	9133
AMMONIA LIQUOR STORAGE TANK/NO LIQUOR	103	9134
INDUSTRIAL AMMONIA STORAGE TANK/NO LIQUOR	101	9135
NEW N. A. L. WORK TANK	131-A	9136
NEW STORAGE TANK/NO LIQUOR	131-B	9137
NEW - NO LIQUOR	131-C	9138
NEW - AMMONIA WORK TANK	131-D	9139
AMMONIA SULPHATE - EMERGENCY SOLUTION STORAGE	133-A	9140
AMMONIA SULPHATE - EMERGENCY SOLUTION STORAGE	133-B	9141
AMMONIA SULPHATE - NO LIQUOR STORAGE TANK	133-C	9142
AMMONIA SULPHATE - SULPHURIC ACID STORAGE	133-D	9143

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
9144	753-F	SULFONATE STORAGE
9145	813	INERT GAS GASOMETER
9146	814	MIXED GAS GASOMETER
9147	827	CAUSTIC STORAGE TANKS
9148	874-B	AMMONIA STORAGE TANK/ANHYDROUS/
9149	874-C	AMMONIA STORAGE TANK/HORTONSPHERE/
9150	874-D	AMMONIA STORAGE TANK/HORTONSPHERE/
9151	874-E	ANHYDROUS AMMONIA STORAGE TANK
9152	874-F	ANHYDROUS AMMONIA STORAGE TANK
9153	874-G	ANHYDROUS AMMONIA STORAGE TANK
9154	874-H	ANHYDROUS AMMONIA STORAGE TANK
9155	874-1	ANHYDROUS AMMONIA STORAGE TANK
9156	877	OIL STORAGE - COMPRESSOR HOUSE
9157	2911	STORAGE TANKS
9158	2910	WORK TANKS
9159	173-L	H. A. I. STORAGE
9160	173-M	UE-32 SOLUTION STORAGE
9161	9161	NITRIC ACID STORAGE
9162	9162	FORMALIN BLEND TANK
9200	218-B	CONSTANT TEMPERATURE MAGAZINE
9201	312-A	DYNAMITE MAGAZINE #1
9202	312-B	DYNAMITE MAGAZINE #2
9203	312-C	DYNAMITE MAGAZINE #3
9204	312-D	DYNAMITE MAGAZINE #4
9205	312-E	DYNAMITE MAGAZINE #5
9206	312-F	DYNAMITE MAGAZINE #6
9207	312-G	DYNAMITE MAGAZINE #7

STANDARD STORAGE	215-1	2151
MIXED GAS COMPRESSOR	215-2	2152
MIXED GAS COMPRESSOR	215-3	2153
QUANTIC STORAGE TANK	215-4	2154
ASBESTOS STORAGE TANK/ASBESTOS	215-5	2155
ASBESTOS STORAGE TANK/ASBESTOS	215-6	2156
ASBESTOS STORAGE TANK/ASBESTOS	215-7	2157
ASBESTOS STORAGE TANK	215-8	2158
ASBESTOS STORAGE TANK	215-9	2159
ASBESTOS STORAGE TANK	215-10	2160
ASBESTOS STORAGE TANK	215-11	2161
ASBESTOS STORAGE TANK	215-12	2162
ASBESTOS STORAGE TANK	215-13	2163
ASBESTOS STORAGE TANK	215-14	2164
ASBESTOS STORAGE TANK	215-15	2165
ASBESTOS STORAGE TANK	215-16	2166
ASBESTOS STORAGE TANK	215-17	2167
ASBESTOS STORAGE TANK	215-18	2168
ASBESTOS STORAGE TANK	215-19	2169
ASBESTOS STORAGE TANK	215-20	2170
ASBESTOS STORAGE TANK	215-21	2171
ASBESTOS STORAGE TANK	215-22	2172
ASBESTOS STORAGE TANK	215-23	2173
ASBESTOS STORAGE TANK	215-24	2174
ASBESTOS STORAGE TANK	215-25	2175
ASBESTOS STORAGE TANK	215-26	2176
ASBESTOS STORAGE TANK	215-27	2177
ASBESTOS STORAGE TANK	215-28	2178
ASBESTOS STORAGE TANK	215-29	2179
ASBESTOS STORAGE TANK	215-30	2180
ASBESTOS STORAGE TANK	215-31	2181
ASBESTOS STORAGE TANK	215-32	2182
ASBESTOS STORAGE TANK	215-33	2183
ASBESTOS STORAGE TANK	215-34	2184
ASBESTOS STORAGE TANK	215-35	2185
ASBESTOS STORAGE TANK	215-36	2186
ASBESTOS STORAGE TANK	215-37	2187
ASBESTOS STORAGE TANK	215-38	2188
ASBESTOS STORAGE TANK	215-39	2189
ASBESTOS STORAGE TANK	215-40	2190
ASBESTOS STORAGE TANK	215-41	2191
ASBESTOS STORAGE TANK	215-42	2192
ASBESTOS STORAGE TANK	215-43	2193
ASBESTOS STORAGE TANK	215-44	2194
ASBESTOS STORAGE TANK	215-45	2195
ASBESTOS STORAGE TANK	215-46	2196
ASBESTOS STORAGE TANK	215-47	2197
ASBESTOS STORAGE TANK	215-48	2198
ASBESTOS STORAGE TANK	215-49	2199
ASBESTOS STORAGE TANK	215-50	2200

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
9208	312-H	DYNAMITE MAGAZINE #8
9209	312-I	DYNAMITE MAGAZINE #9
9210	312-J	DYNAMITE MAGAZINE #10
9211	312-K	DYNAMITE MAGAZINE
9212	313	FUSE MAGAZINE
9213	315	CAP MAGAZINE
9214	319	TRAM CAR MAGAZINE
9300	69-B	INGREDIENT STORE
9301	69-C	INGREDIENT STORE
9302	69-D	INGREDIENT STORE
9305	72-C	SODA STORAGE BUILDING
9306	73-C	NITRATE OF AMMONIA STORE - HOT STORAGE
9307	76	PAPER STORE
9308	77-B	PARAFFIN STORE
9311	116	TRANSFER PLATFORM
9312	145-D	CARBOY LOADING PLATFORM - WHITE NITRIC PLANT
9313	145-E	CARBOY LOADING PLATFORM - WHITE NITRIC PLANT
9314	9314	DYNAMITE VAN PARKING SHIELD
9501	352	BROAD GAUGE TRACKS
9502	353	BROAD GAUGE EQUIPMENT
9513	350	TRAMWAYS
9514	351	TRAMWAY EQUIPMENT
9515	32	ELECTRIC LOCOMOTIVE CHARGING HOUSE
9516	37-D	LOCOMOTIVE HOUSE
9520	354-B	BRIDGE OVER BROAD GAUGE TRACKS
9521	354-C	BRIDGE OVER BROAD GAUGE TRACKS
9541	347	ROADS & WALKS

STANDARD	341	9241
STANDARD	342	9242
STANDARD	343	9243
STANDARD	344	9244
STANDARD	345	9245
STANDARD	346	9246
STANDARD	347	9247
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STANDARD	364	9264
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STANDARD	396	9296
STANDARD	397	9297
STANDARD	398	9298
STANDARD	399	9299
STANDARD	400	9300

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
9542	348	FENCES
9544	125	TENNIS COURT
9545	118-A	WHARF-NITRE
9546	118-B	WHARF-POWDER
9600	370-A	BARN - RANCH
9601	370-B	BARN
9602	370-C	BARN - /FASSLER RANCH/
9603	371-A	SHED - TOOL /NEAR RODEO/
9604	371-B	SHED - CHICKEN /NEAR RODEO/
9605	371-D	SHED - IMPLEMENT /NEAR RODEO/
9606	372-A	GRANARY - /RANCH NEAR RODEO/
9607	373	CORRALS - FENCES /SHEEP BARN/
9700	1500	FURNITURE AND FIXTURES
9701	1501	EXTRA MACHINERY
9702	1502	SUPERFLUOUS MACHINERY
9703	1503	TOOLS
9704	1504	PORTABLE MATERIALS HANDLING & WEIGHING EQUIPMENT
9705	1506	SHELL CRATE, INGREDIENT & CARTRIDGED POWDER CONTAINERS
9801	1-H	TENANT HOUSES #2 BAY STREET
9802	2-H	TENANT HOUSES #4 BAY STREET
9803	3-H	TENANT HOUSES #6 BAY STREET
9804	4-H	TENANT HOUSES #8 BAY STREET
9805	5-H	TENANT HOUSES #10 BAY STREET
9806	6-H	TENANT HOUSES #12 BAY STREET
9807	7-H	TENANT HOUSES #14 BAY STREET
9808	8-H	TENANT HOUSES #1 PINOLE STREET
9809	9-H	TENANT HOUSES #2 PINOLE STREET

2545	2545	2545
2546	2546	2546
2547	2547	2547
2548	2548	2548
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2551	2551	2551
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2598	2598	2598
2599	2599	2599

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
9810	10-H	TENANT HOUSES #3 PINOLE STREET
9811	11-H	TENANT HOUSES #4 PINOLE STREET
9812	12-H	TENANT HOUSES #5 PINOLE STREET
9813	13-H	TENANT HOUSES #6 PINOLE STREET
9814	14-H	TENANT HOUSES #7 PINOLE STREET
9815	15-H	TENANT HOUSES #8 PINOLE STREET
9816	16-H	TENANT HOUSES #9 PINOLE STREET
9817	17-H	TENANT HOUSES #11 PINOLE STREET
9818	18-H	TENANT HOUSES #13 PINOLE STREET
9819	19-H	TENANT HOUSES #6 SANTA FE AVENUE
9820	20-H	TENANT HOUSES #7 SANTA FE AVENUE
9821	21-H	TENANT HOUSES #8 SANTA FE AVENUE
9822	22-H	TENANT HOUSES #9 SANTA FE AVENUE
9823	23-H	TENANT HOUSES #10 SANTA FE AVENUE
9824	24-H	TENANT HOUSES #11 SANTA FE AVENUE
9825	25-H	TENANT HOUSES #12 SANTA FE AVENUE
9826	26-H	TENANT HOUSES #13 SANTA FE AVENUE
9827	27-H	TENANT HOUSES #14 SANTA FE AVENUE
9828	28-H	TENANT HOUSES #15 SANTA FE AVENUE
9829	29-H	TENANT HOUSES #16 SANTA FE AVENUE
9830	30-H	TENANT HOUSES #17 SANTA FE AVENUE
9831	31-H	TENANT HOUSES #1 PARK STREET
9832	32-H	TENANT HOUSES #3 PARK STREET
9833	33-H	TENANT HOUSES #5 PARK STREET
9834	34-H	TENANT HOUSES #7 PARK STREET
9835	35-H	TENANT HOUSES #9 PARK STREET
9836	36-H	TENANT HOUSES #11 PARK STREET

THOMAS HOOKER 1/2 PINE STREET	10-11	9810
THOMAS HOOKER 1/2 PINE STREET	11-12	9811
THOMAS HOOKER 1/2 PINE STREET	12-13	9812
THOMAS HOOKER 1/2 PINE STREET	13-14	9813
THOMAS HOOKER 1/2 PINE STREET	14-15	9814
THOMAS HOOKER 1/2 PINE STREET	15-16	9815
THOMAS HOOKER 1/2 PINE STREET	16-17	9816
THOMAS HOOKER 1/2 PINE STREET	17-18	9817
THOMAS HOOKER 1/2 PINE STREET	18-19	9818
THOMAS HOOKER 1/2 PINE STREET	19-20	9819
THOMAS HOOKER 1/2 PINE STREET	20-21	9820
THOMAS HOOKER 1/2 PINE STREET	21-22	9821
THOMAS HOOKER 1/2 PINE STREET	22-23	9822
THOMAS HOOKER 1/2 PINE STREET	23-24	9823
THOMAS HOOKER 1/2 PINE STREET	24-25	9824
THOMAS HOOKER 1/2 PINE STREET	25-26	9825
THOMAS HOOKER 1/2 PINE STREET	26-27	9826
THOMAS HOOKER 1/2 PINE STREET	27-28	9827
THOMAS HOOKER 1/2 PINE STREET	28-29	9828
THOMAS HOOKER 1/2 PINE STREET	29-30	9829
THOMAS HOOKER 1/2 PINE STREET	30-31	9830
THOMAS HOOKER 1/2 PINE STREET	31-32	9831
THOMAS HOOKER 1/2 PINE STREET	32-33	9832
THOMAS HOOKER 1/2 PINE STREET	33-34	9833
THOMAS HOOKER 1/2 PINE STREET	34-35	9834
THOMAS HOOKER 1/2 PINE STREET	35-36	9835
THOMAS HOOKER 1/2 PINE STREET	36-37	9836

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
9837	37-H	TENANT HOUSES #13 PARK STREET
9838	38-H	TENANT HOUSES #14 PARK STREET
9839	39-H	TENANT HOUSES #15 PARK STREET
9840	40-H	TENANT HOUSES #16 PARK STREET
9841	41-H	TENANT HOUSES #17 PARK STREET
9842	42-H	TENANT HOUSES #19 PARK STREET
9843	43-H	TENANT HOUSES #21 PARK STREET
9844	44-H	TENANT HOUSES #4 HERCULES AVENUE
9845	45-H	TENANT HOUSES #6 HERCULES AVENUE
9846	46-H	TENANT HOUSES #8 HERCULES AVENUE
9847	47-H	TENANT HOUSES #10 HERCULES AVENUE
9848	48-H	TENANT HOUSES #12 HERCULES AVENUE
9853	53-H	TENANT HOUSES #1 KINGS AVENUE
9854	54-H	TENANT HOUSES #2 KINGS AVENUE
9856	56-H	TENANT HOUSES #4 KINGS AVENUE
9861	61-H	TENANT HOUSES #1-A SANTA FE AVENUE
9862	62-H	TENANT HOUSES #1 SANTA FE AVENUE
9863	63-H	TENANT HOUSES #2 SANTA FE AVENUE
9864	64-H	TENANT HOUSES #3 SANTA FE AVENUE
9865	65-H	TENANT HOUSES #4 SANTA FE AVENUE
9866	66-H	TENANT HOUSES #5 SANTA FE AVENUE
9869	69-H	TENANT HOUSES RAILROAD AVENUE
9870	70-H	TENANT HOUSES #5 HERCULES AVENUE
9871	71-H	TENANT HOUSES #7 HERCULES AVENUE
9872	72-H	TENANT HOUSES #9 HERCULES AVENUE
9873	73-H	TENANT HOUSES #11 HERCULES AVENUE
9874	74-H	TENANT HOUSES #13 HERCULES AVENUE

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
9875	75-H	TENANT HOUSES #15 HERCULES AVENUE
9902	102-H	TENANT HOUSES MASONIC HALL
9927	127-H	TENANT HOUSES #1 BAY STREET
9928	128-H	TENANT HOUSES #3 BAY STREET
9929	129-H	TENANT HOUSES #5 BAY STREET
9930	130-H	TENANT HOUSES #7 BAY STREET
9931	131-H	TENANT HOUSES #5 KINGS AVENUE
9932	132-H	TENANT HOUSES #1 TALLEY AVENUE
9933	133-H	TENANT HOUSES #2 TALLEY AVENUE
9935	135-H	TENANT HOUSES #6 KINGS AVENUE
9936	136-H	TENANT HOUSES #1 HERCULES AVENUE
9937	137-H	TENANT HOUSES #1-A HERCULES AVENUE
9938	138-H	TENANT HOUSES #3 HERCULES AVENUE
9939	139-H	TENANT HOUSES #17 HERCULES AVENUE
9940	140-H	TENANT HOUSES #19 HERCULES AVENUE
9941	141-H	TENANT HOUSES #2 DUNHAM AVENUE
9942	142-H	TENANT HOUSES #4 DUNHAM AVENUE
9943	143-H	TENANT HOUSES #6 DUNHAM AVENUE
9944	144-H	TENANT HOUSES #8 DUNHAM AVENUE
9945	145-H	TENANT HOUSES #10 DUNHAM AVENUE
9946	146-H	TENANT HOUSES #12 DUNHAM AVENUE
9947	147-H	TENANT HOUSES #14 DUNHAM AVENUE
9948	148-H	TENANT HOUSES #2 SKELLY AVENUE
9949	149-H	TENANT HOUSES #4 SKELLY AVENUE
9950	150-H	TENANT HOUSES #6 SKELLY AVENUE
9951	151-H	TENANT HOUSES #7 SKELLY AVENUE
9952	152-H	TENANT HOUSES #8 SKELLY AVENUE

THOMAS HOUSE 125 KIRKWOOD AVENUE	125-E	9907
THOMAS HOUSE 126 KIRKWOOD AVENUE	126-E	9908
THOMAS HOUSE 127 KIRKWOOD AVENUE	127-E	9909
THOMAS HOUSE 128 KIRKWOOD AVENUE	128-E	9910
THOMAS HOUSE 129 KIRKWOOD AVENUE	129-E	9911
THOMAS HOUSE 130 KIRKWOOD AVENUE	130-E	9912
THOMAS HOUSE 131 KIRKWOOD AVENUE	131-E	9913
THOMAS HOUSE 132 KIRKWOOD AVENUE	132-E	9914
THOMAS HOUSE 133 KIRKWOOD AVENUE	133-E	9915
THOMAS HOUSE 134 KIRKWOOD AVENUE	134-E	9916
THOMAS HOUSE 135 KIRKWOOD AVENUE	135-E	9917
THOMAS HOUSE 136 KIRKWOOD AVENUE	136-E	9918
THOMAS HOUSE 137 KIRKWOOD AVENUE	137-E	9919
THOMAS HOUSE 138 KIRKWOOD AVENUE	138-E	9920
THOMAS HOUSE 139 KIRKWOOD AVENUE	139-E	9921
THOMAS HOUSE 140 KIRKWOOD AVENUE	140-E	9922
THOMAS HOUSE 141 KIRKWOOD AVENUE	141-E	9923
THOMAS HOUSE 142 KIRKWOOD AVENUE	142-E	9924
THOMAS HOUSE 143 KIRKWOOD AVENUE	143-E	9925
THOMAS HOUSE 144 KIRKWOOD AVENUE	144-E	9926
THOMAS HOUSE 145 KIRKWOOD AVENUE	145-E	9927
THOMAS HOUSE 146 KIRKWOOD AVENUE	146-E	9928
THOMAS HOUSE 147 KIRKWOOD AVENUE	147-E	9929
THOMAS HOUSE 148 KIRKWOOD AVENUE	148-E	9930
THOMAS HOUSE 149 KIRKWOOD AVENUE	149-E	9931
THOMAS HOUSE 150 KIRKWOOD AVENUE	150-E	9932
THOMAS HOUSE 151 KIRKWOOD AVENUE	151-E	9933
THOMAS HOUSE 152 KIRKWOOD AVENUE	152-E	9934

<u>ACCOUNT NO.</u>	<u>BUILDING NO.</u>	<u>ACCOUNT TITLE</u>
9953	153-H	TENANT HOUSES #19 SKELLY AVENUE
9954	154-H	TENANT HOUSES #12 SKELLY AVENUE
9955	155-H	TENANT HOUSES #1 BACCHUS AVENUE
9956	156-H	TENANT HOUSES #3 BACCHUS AVENUE
9957	157-H	TENANT HOUSES #5 BACCHUS AVENUE
9958	158-H	TENANT HOUSES #7 BACCHUS AVENUE
9959	159-H	TENANT HOUSES #9 BACCHUS AVENUE
9960	160-H	TENANT HOUSE
9961	161-H	TENANT HOUSE - NEAR BUILDING 370-B

THE HERCULITE

Bringing management news to the employe and news of the employe to the employe are the two chief functions of The Herculite, the Plant employe publication.

Good plant relations and human interest are two natural results of these functions. The Herculite serves as a means of communication between management and the worker bringing to the worker information necessary to him in his work with the Company, as a family man, and as an individual.

Of interest to the employe on and off the job, The Herculite carries items of general interest about members of each department, stresses safety on and off the job, and carries news of activities of the Hercules Club, local Union, Bowling teams, and the community events that concern plant people.

Cartoons climax the four or five pages of news and articles that comprise the rest of the paper. One of these cartoons illustrates the importance of various phases of safety.

SAFETY

A New Idea in Safety: Safety precautions in the past have been attempted through sources outside the employee. Such efforts involved a safety inspector and the attempt to make a job mechanically foolproof. But accidents and injuries continued.

Now emphasis is upon the individual worker who is educated and encouraged toward a safety attitude of mind plus knowledge of the job. In line with this view two agents contribute to this idea. The first is intelligent safety rules conditioned by the nature of the job, and the supervisor who tries to encourage the attitude of mind that leads the employee to do his job willingly and thoughtfully in the proper way.

Aiding the Supervisor is a Safety and Health Arrangement: This is a set of activities that are part of good management and supervision and that add up to a service arrangement to aid and supplement the supervisor. Just as maintenance helps the supervisor preserve physical equipment, Safety and Health helps him preserve and repair workmen.

Aside from the moral and humane considerations of Safety there are cost circumstances to be considered. An employee cannot be considered as a cheap tool replaceable at low cost. Injury to an employee today can be frighteningly expensive to a business in that the cost literally endangers the soundness of a concern.

The Company Safety Man: The position of the Safety engineer is to give the supervisor specialized aid in developing good work habits among his workmen. This is done by such means as general safety education programs, aid in solving specific problems in job performance, gathering and making available information concerning how others have solved similar problems, information on legal requirements, advise on the use of specialized protective equipment and assisting with or supplementing routine inspections of equipment and work practices.

[illegible]

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Such equipment is needed for those conditions where a hazard exists which cannot or has not been eliminated by engineering design. It gives the extra protection where there is extra danger as from a mechanical failure or a human error. For example, the use of goggles is essential in working around equipment containing corrosive substances, such as acid and caustic, because in spite of good equipment there is always the possibility of an unexpected failure or a worker's unsafe act to endanger himself or someone else. There are no replacements for lost eyes so special care is a wise precaution.

Special Respiratory Devices: These are provided for similar reasons where dusts or fumes are harmful and cannot be eliminated and for use in emergencies when unusual quantities of harmful or irritant material are released.

Fixed position air-line supplied masks are provided for frequent or long duration jobs where movement is necessary only within a comparatively small radius.

Oxygen supplied (Chemox) units are available for rescue, emergency operation, or temporary uses in harmful atmospheres where movement cannot be restricted.

Face masks are suitable for nuisance and some kinds of harmful dust protection. They are preferred because of simplicity and convenience, but their limitations must be recognized. This is also true of canister type masks which are satisfactory only for specific conditions without themselves being potentially dangerous.

Safety shoes, gloves, coveralls, hats, and other special clothes are all intended to give an extra measure of protection to the worker.

Personal protective equipment is usually an added expense in preparing a man for his job. However, in most cases such equipment is designed and made available because there is a statistically frequent and serious hazard to be guarded against - it pays to use them.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Such equipment is needed for those workers whose work is hazardous to health or life. It is designed to protect the worker from physical, chemical, biological, or radiological hazards. It is not intended to protect the worker from a sudden error. For example, the use of goggles is essential in working around equipment containing corrosive substances, such as acid and caustic. Equipment is also used to protect the worker from the possibility of an unexpected fall. There are no requirements for foot wear as special shoes. There are no requirements for head wear as special hats are not provided.

Personal Protective Equipment: There are provisions for clothing which must be worn and which must be maintained in good condition. There are also provisions for the use of special shoes. There are no requirements for head wear as special hats are not provided.

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ACCIDENT REPORTS

Every accident which results in injury to an employe or causes property damage must be recorded. The information for such reports should be compiled as promptly and as accurately as possible. Forms for recording are available from the Safety Office or stationery supply. Every personal injury, no matter how slight it seems to be, should be recorded, preferably at the Safety Office.

In cases of Industrial Injury the circumstances and nature of the injury, cause, etc. must be transmitted to the State. This is another reason for promptness and accuracy in reporting every injury.

Near Accidents: Incidents which in themselves do not appear to be serious accidents, but which bring to attention a condition which might result in a serious accident are to be recorded as Near Accidents. These are important because of the lessons to be derived from them. Employes, particularly supervisors, should be alert to report them on the special forms provided for this purpose.

Safety Committees: The Safety Committee program is arranged to give an added impetus to safety. It makes easily possible and encourages employe participation in promotion of better conditions. The committee allows the average worker to feel and act the part of a special safety worker. It also encourages different eyes to look from new angles at old jobs or conditions. This may uncover another place or condition that can be improved.

Legal Safety Requirements: The State has set up certain standards for conditions of work for guidance of employers. In general these are intended to be minimal standards to protect workers. These regulations and standards are extensive and are printed in looseleaf form to make the frequent revisions more convenient. The standards cover general practices applicable to most working conditions. In addition, there are regulations for specific industries or types of work, such as, electrical, chemical, petroleum, mining, etc. Regardless of classification, all rules are applicable to every employment situation. In the enforcement of these standards the State has safety engineers who have the right to make inspections and recommendations with the authority to force compliance with the law. Also violation of State safety regulations can, in the event of accident and injury resulting from such violation, form grounds for possible extra compensation from the employer.

1971-1972

The first of the two main sections of the report is devoted to a description of the work done during the year. This section is divided into two parts, the first of which deals with the work done in the field and the second with the work done in the laboratory.

The second section of the report is devoted to a discussion of the results of the work done during the year. This section is divided into two parts, the first of which deals with the results of the field work and the second with the results of the laboratory work.

The third section of the report is devoted to a discussion of the conclusions drawn from the work done during the year. This section is divided into two parts, the first of which deals with the conclusions drawn from the field work and the second with the conclusions drawn from the laboratory work.

The fourth section of the report is devoted to a discussion of the future work planned for the next year. This section is divided into two parts, the first of which deals with the future work planned for the field and the second with the future work planned for the laboratory.

The fifth section of the report is devoted to a discussion of the acknowledgments. This section is divided into two parts, the first of which deals with the acknowledgments of the field work and the second with the acknowledgments of the laboratory work.

In addition to the safety standards, established by the State, there are others which help form a base for good work practices. These include publications of the National Safety Council, the American Standards Association, and specialized standards as recommended by the National Fire Protective Association, National Board of Fire Underwriters, and the Manufacturing Chemists Association. These latter, while not having the force of law, give a conscientious employer a further guide in what is currently considered good design and work practices.

Our own Safety and Engineering Departments maintain an extensive set of recommended equipment and construction standards. These are available at the Safety and Departmental offices in the plant.

U. S. DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

FUNCTIONS OF THE HEALTH AND SAFETY DEPARTMENT

Our plant is near the dividing line - a very elastic and variable line, depending on many factors - between a small plant and a large one or between a single and many department business. For this reason the designation Safety Department at Hercules covers a number of activities which are more or less related to employe and property protection.

Below are listed some of the activities carried on by the department:

1. Assist Supervisors with specific safety problems.
2. Safety education - talks with Supervisors and workmen, bulletins, posters, pamphlets, rule cards, training in use of equipment.
3. Supply personal protective equipment - goggles, respirators, etc. and first aid supplies and maintain them in serviceable condition.
4. Inspect emergency equipment, as safety showers and respirators.
5. Maintain information files on safe practices, Company methods, and State law regulations.
6. Direct the Safety Committee activities.
7. Make inspections to supplement those by Supervisors.
8. Arrange for care of injured employes.
9. Keep records of injuries as required by law and as needed by the Company for benefit plans.
10. Assist the payroll clerk in getting accurate information for absentee records.
11. Help in recording Works Accidents (property).
12. Supervise the plant watchmen.
13. Make periodic match searches and see to the issuance of match permits.
14. Assist the plant doctor with physical examinations and maintain the employe health records.

15. Direct the maintenance of fire fighting equipment.
16. Help with the general cleaning by grass burning and rubbish disposal in and out of the burning ground.
17. Make bulletin board postings, keep payroll time for office employees, and occasional special jobs.

10. There is no maintenance of the lighting system.
11. Help with the general cleaning of the building and
the grounds is not sufficient.
12. The building is not properly maintained.

13.

FIRE PROTECTION

Fire Equipment: Fire hydrants with attached hose are placed throughout the plant and village where there are buildings. Each box contains 150 or 200 feet of hose of either 2-1/2" or 1-1/2" diameter (except Black Powder where 2" hose is in use). Water pressure is sustained by the tower tank with pressures varying from 65 to 100 P.S.I. at the nozzle.

Sprinkler Systems: These are installed in some buildings where special fire conditions exist. Some of these systems have automatic control. Others have manual control from valves outside the building.

First Aid Hand Extinguishers: These are provided for spot protection against special hazards.

Soda-Acid: type are for use against fires in wood, paper, grass, etc.

Foam Extinguishers: are located in some places for use against flammable liquid fires as well as against fires in wood, paper, etc.

Dry Chemical (Ansul) and Carbon Dioxide extinguishers are for use against flammable liquid fires and those involving electrical equipment.

A Tank Trailer with high pressure pump and back-pack hand extinguishers is kept in the main gate garage. This is particularly for grass fire use. There are also water drums with buckets and sacks on bridges and in spots where piped water is not available.

There is Reserve Hose in special houses located near warehouse Number 6, near the main track between Dynamite Box Pack and Number 3 Hall house, and at the Main Gate. Fire equipment and supplies are stored in the house across from the Main Gate House.

Fire fighting apparatus must be ready at all times. This requires the cooperation of all employees in using it properly and in helping to see that replacement and maintenance is well done. In case of use, the Safety Department should be notified so that proper records can be made and also so that equipment can be put in good condition.

Fire hose is easily damaged if not properly cared for and must not be used for other than fires unless special authorization is arranged.

Fire Alarms are made at the Power House by siren and whistle code to indicate the approximate location. It is therefore important to give the location as accurately as possible to the Power House when reporting a fire by telephone. The automatic fire alarm box system covers the village and a part of the plant. Signals from the boxes give the location by box and do not pinpoint the fire.

There is no formal fire fighting organization on the plant. Employees nearest the fire make first efforts at fighting it. The maintenance department provides a group of fire fighters who can respond promptly and can back up initial efforts. Direction of fire fighting falls to the supervisor first available and succeeds to the department supervisor and works management at the scene.

First concern at a fire is protection of personnel. This determines how or if a fire will be fought and is the concern of whomever is in charge, particularly at the outbreak of a fire. The object next is to prevent spread of fire and then extinguishment with minimum damage either by fire or by the means of fighting it.

There is a small lake in the center of the island. It is surrounded by a low wall of coral. The water is very clear and the bottom is sandy. There are many small fish in the lake. The island is very small and there are no other buildings or structures on it.

The island is very small and there are no other buildings or structures on it. The water is very clear and the bottom is sandy. There are many small fish in the lake. The island is very small and there are no other buildings or structures on it.

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PERMIT FOR CARRYING MATCHES
VISITOR'S PASSES
STOREROOM KEYS

Permits to Carry Matches: "Match Permits" are issued to plant personnel who require the use of flame producing devices to perform their jobs. The permit is issued for a specific period of time and is not transferable. It permits the employee to carry and use as required safety matches (in standard safety match carriers), sparker, cutting-welding torches or other flame producing devices.

These permits are also issued to contractor's employees under the same conditions and limitations. However, the person issuing such a pass must explain to the contracting employee the serious nature of fires on this plant. In all cases of use of flame producing devices, the user must have fire fighting equipment immediately available.

Permits are granted in unusual cases for burning certain materials on the plant, i.e., summer grass burning, burning grounds, etc. Such burning is performed in restricted areas and under strictly controlled conditions.

All "match permits" or fire permits must be approved by the the Works Manager or his assistant.

Visitor's Passes: If a visitor has a good and sufficient reason for entering the plant he may be granted a visitor's pass. Such passes are issued to certain sales engineers (when plant inspection is required for them to properly advise on plant purchases), inspectors, and certain other people.

The pass is issued for a specific period of time and permits the visitor to visit only a restricted area. It must be signed by the visitor himself who thereby relieves the Company of any liability in connection with his visit. The pass must also be signed by the Works Manager or his assistant.

Storeroom Keys: In February, 1951, the storeroom was equipped with a new set of locks. Individual keys were issued to Messrs. Sutton, Fraser, Conrady, Person, Higley, Hatfield, and the five Acid Department shift supervisors. Each individual who received a key is responsible for proper use of the key and must retain it on his person at all times when at work. These storeroom keys are not to be loaned to anyone and are not to be duplicated. If a key is lost, report immediately to Mr. Nicholls who will issue another one. Keyholders must issue materials from the storeroom personally, complete store tickets and leave them at storeroom.

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80. The eightieth part of the report

OFFICE PROCEDURE

The main function of the office is to keep the records of the various plant operations, such as material received, used, and on hand; finished products manufactured, used, shipped and on hand; payroll and payroll distribution, storehouse, purchasing and payment of invoices and freight bills.

Essential Materials: Stock records are maintained for each material falling in this category. The accounts are charged when the material is manufactured or purchased and credited when the material is used or shipped. Current balances are maintained which must agree with the physical stock on the plant. Hence the necessity for our regular inventories.

Payrolls: The first step in making up the payroll is the preparation of the daily time cards by the Supervisors. They must include the employee's name, hours worked, rate of pay and codes to which his time should be charged. A sample time card is included in the manual under the heading of Timekeeping. It is suggested that all supervisors be familiar with them. The time cards are posted both to the earnings record and the labor distribution daily. These are also totaled and balanced daily. The payroll periods are bi-weekly, closing every other Sunday with payday falling on the following Thursday.

Storehouse: The materials in the storehouse are carried so that they will be readily available for those who need them. Certain supervisors have been authorized for withdrawing the type of materials used in their particular line of work. The storehouse operates on what is known as a bin-card system. Receipts are posted from purchase orders and deliveries are posted from stores delivery orders. Current balances are maintained on all items and inventories are on a perpetual basis.

Invoices and Freight Bills: All invoices and freight bills are checked carefully to insure that we are getting what we pay for. They are then entered for future reference and approved for payment. Payment is made by one of the prescribed methods.

In addition to the above, the following functions are performed:

Hercules Water Company: The complete books of this company are maintained at this location. Nearly 500 consumers in the vicinity of Pinole and 100 in the town of Hercules

The first paragraph of the report is devoted to a description of the general situation in the country. It is stated that the country is in a state of general confusion and that the government is unable to maintain order. The second paragraph describes the situation in the capital city, which is also in a state of confusion. The third paragraph describes the situation in the provinces, which are also in a state of confusion.

The fourth paragraph describes the situation in the army, which is also in a state of confusion. The fifth paragraph describes the situation in the navy, which is also in a state of confusion. The sixth paragraph describes the situation in the air force, which is also in a state of confusion. The seventh paragraph describes the situation in the police, which is also in a state of confusion.

The eighth paragraph describes the situation in the judiciary, which is also in a state of confusion. The ninth paragraph describes the situation in the education system, which is also in a state of confusion. The tenth paragraph describes the situation in the health system, which is also in a state of confusion. The eleventh paragraph describes the situation in the economy, which is also in a state of confusion. The twelfth paragraph describes the situation in the culture, which is also in a state of confusion.

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The eighteenth paragraph describes the situation in the executive system, which is also in a state of confusion. The nineteenth paragraph describes the situation in the legislative system, which is also in a state of confusion. The twentieth paragraph describes the situation in the judicial system, which is also in a state of confusion. The twenty-first paragraph describes the situation in the administrative system, which is also in a state of confusion.

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are customers of the Hercules Water Company.

Collection Account: This account consists of billing and collecting personal charges to all salaried and pensioned personnel.

Shipping: This consists of preparation of all shipping orders, bills of lading and necessary papers in connection with the shipments of all explosives, chemicals and miscellaneous materials leaving the plant.

Consigned Stock: A large supply of blasting caps, nitro-cellulose, casein, etc. is stored here for shipment to customers as directed by our Sales Department. Complete stock records and shipping papers must be maintained on these materials.

Insurance Records: Consists of complete records of individual coverage for Group Life, Accident and Sickness and Hospital insurance for all payroll employees.

LABORATORY

The Laboratory at the Hercules Plant functions as a service department. The main Laboratory serves the acid department, Black Powder Department, and the Dynamite Department. In addition, due to the dissimilar work involved, the ammonia plant operates its own laboratory. The main laboratory performs the following functions: Production control analysis, sales control analysis, incoming material analysis and a limited amount of plant research.

In our organization the principal source of research development is the Experimental Station at Wilmington. However, on our plant we have a research chemist who devotes most of his time to special projects and assignments.

The main laboratory is divided into two principal divisions - the acid laboratory and the powder laboratory.

Acid Laboratory: The personnel of the acid laboratory perform the functions necessary to maintain chemical control over the entire acid plant. They determine the consistency of materials and additives to produce the required final products. They conduct specification analysis on incoming and outgoing materials. They are available for any special analysis required for control or development work.

Powder Laboratory: The personnel in the powder laboratory conduct control analysis on powder produced and certain incoming materials. Further, they conduct air tests to determine the amount of nitroglycerine or ethylene glycol denitrate fumes present in the air in the powder line buildings. These calculations help to determine the filter change cycle and the rate of circulation of air within the powder buildings.

Sampling: It is imperative, to insure accuracy and reliability in all laboratory analysis, that the sample given to the laboratory be truly representative of the entire batch of material it represents. Thus it is apparent the correct and accurate sample by the operating departments must be carefully controlled.

Hercules, California
June 6, 1962

To: All Department Head Supervisors

From: Pietro Reck *PR*

EMERGENCY CALL-IN PROCEDURE

At any time after normal working hours (night shift, week-ends, or holidays) that the shop personnel are needed to preserve continuity of operation, call the following individuals in the order listed below until help can be obtained:

P. G. & E. POWER FAILURES

Pietro Reck
Joe Souza
P. M. Nettleton
Jack Conrady

ELECTRICAL WORK

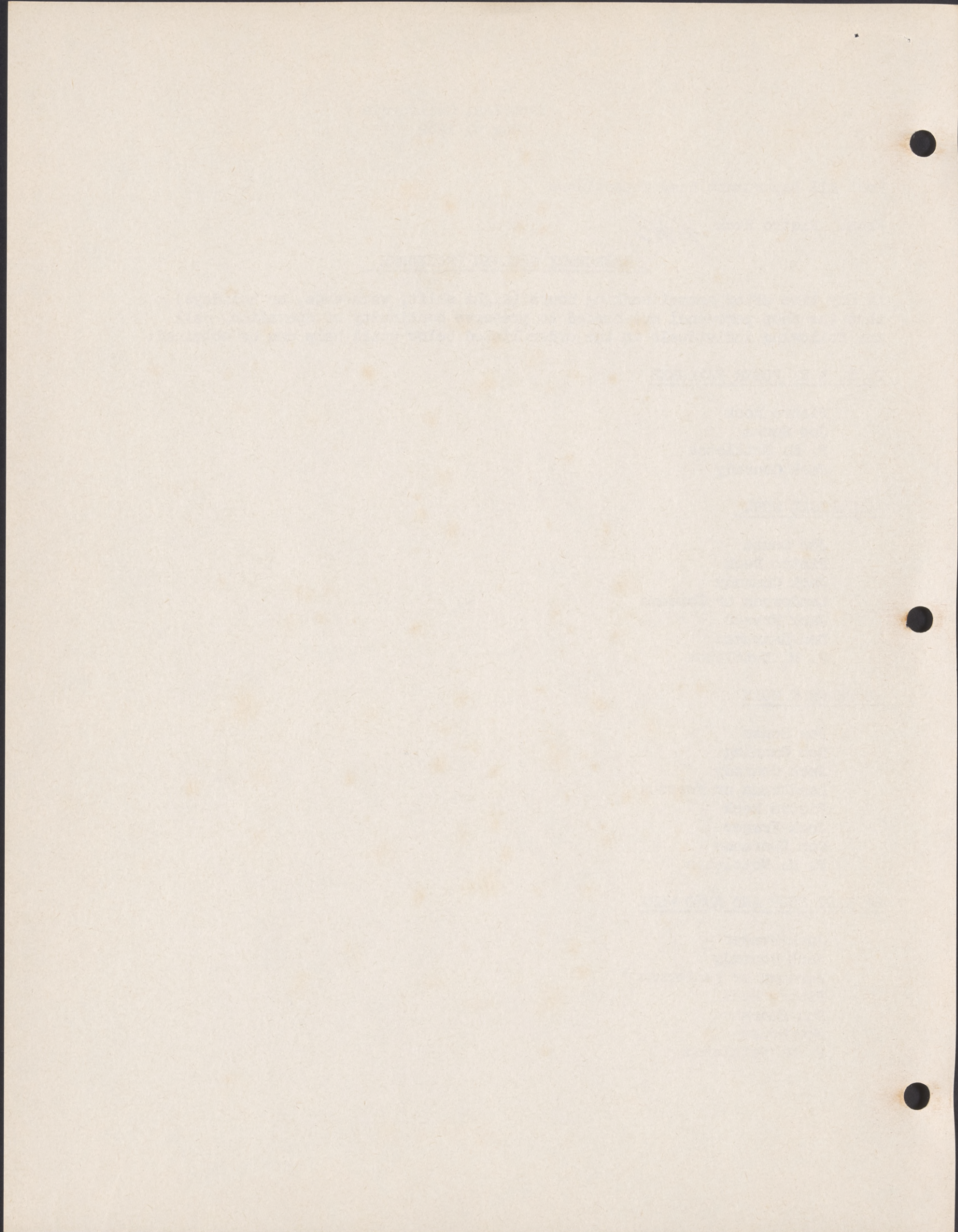
Joe Souza
Pietro Reck
Jack Conrady
Leaderman or Foreman
Jack Fraser
Don Hanrahan
P. M. Nettleton

INSTRUMENT WORK

Joe Souza
Bob Canning
Jack Conrady
Leaderman or Foreman
Pietro Reck
Jack Fraser
Don Hanrahan
P. M. Nettleton

MACHINE SHOP AND AUTO WORK

Jack Fraser
Jack Conrady
Foreman or Leaderman
Pietro Reck
Don Hanrahan
Joe Souza
P. M. Nettleton



PIPE, WELD, MASON AND SHEET METAL, AND LEAD SHOP WORK

Don Hanrahan
Jack Conrady
Foreman or Leaderman
Pietro Reck
Jack Fraser
Joe Souza
P. M. Nettleton

CARPENTER AND PAINT SHOP WORK

Joe Souza
Jack Conrady
Leaderman
Pietro Reck
Don Hanrahan
Jack Fraser
P. M. Nettleton

RIGGERS WORK

Jack Conrady
Jack Fraser
Leaderman
Pietro Reck
Don Hanrahan
Joe Souza
P. M. Nettleton

POWERHOUSE

Pietro Reck
P. M. Nettleton
Jack Flynn
Sam Drake
Jack Conrady

THE UNIVERSITY OF CHICAGO

JOHN D. COOPER
JAMES D. COOPER
JAMES D. COOPER
JAMES D. COOPER
JAMES D. COOPER
JAMES D. COOPER

THE UNIVERSITY OF CHICAGO

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THE UNIVERSITY OF CHICAGO

JOHN D. COOPER
JAMES D. COOPER
JAMES D. COOPER
JAMES D. COOPER
JAMES D. COOPER
JAMES D. COOPER

The Names, Phone Numbers and Addresses of the following men are listed below:

	<u>PHONE NO.</u>	<u>ADDRESS</u>
Plant Engineer:		
P. M. Nettleton	Pl. 8-3612	#2 Talley Way, Hercules
Maintenance and Power Supervisor:		
Pietro Reck	Pl. 8-1273	Railroad Avenue, Hercules
Engineer:		
Bob Canning	Ye. 5-3980	55 Kingston Place, Walnut Creek
Master Mechanic:		
Jack Conrady	Be. 2-3040	3101 Barrett Ave., Richmond
Assistant Master Mechanics:		
Jack Fraser	Pl. 8-3304	#9 Pinole St., Hercules
Don Hanrahan	Ac. 8-1576	3721 Brookside Drive, Martinez
Joe Souza	Pl. 8-0781	#10 Skelly Ave., Hercules

CRAFTSMAN LISTING

ELECTRICIANS

Dodson, H.	538-B Lake Ave.	Rodeo	-
Mariuzza, L.	871 Valley Ave.	Pinole	Pl. 8-3096
Pereira, L.	2 Pinole Street	Hercules	Pl. 8-3401
Witman, L.	1471 Drake Way	San Pablo	Be. 2-0812

INSTRUMENT

Clark, J. Q.	Bldg. I-7, Apt. 578	Rodeo	Rodeo 4823
Davis, Hugh	2565 San Pablo Ave.	Pinole	Pl. 8-2782
Nethercott, W. (Foreman)	1549 Marlesta Dr.	Pinole	Pl. 8-2652
Roay, A. P.	1264 Vine St.	Martinez	Ac. 8-4189

SHEET METAL

Olds, W. B. (Leaderman)	P. O. Box 101	Pinole	Pl. 8-3498
West, F. T.	17 Park Street	Hercules	Pl. 8-3490

LEAD BURNER

Hedberg, V. E.	5908 Bayview Ave.	Richmond	Be. 2-0697
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MACHINE SHOP

Bellah, B. J.	2421 Mc Bryde Ave.	Richmond	Be. 2-1295
Bollinger, Wm.	14 Santa Fe Ave	Hercules	Pl. 8-3371
Clark, C. C.	2241 Buena Vista Ave.	Alameda	La. 3-5173
Classick, John	5640 Castro Road (Sherwood Forest)	San Pablo	Ca. 3-3436
Epley, Ray	854 East Meadow	Pinole	Pl. 8-3630
Gery, Eugene	271 Calais Dr.	Pinole	Pl. 8-2210
Hansen, W. W.	1670 San Pablo Ave.	Pinole	Pl. 8-3664
Kreitzer, H.	3121 Garvin Ave.	Richmond	Be. 4-0462
Lenz, Chas.	8 Skelly Ave.	Hercules	Pl. 8-2669
Pederson, Lars (Foreman)	828 Magnolia Lane	Pinole	Pl. 8-3767
Redmond, Wm. C.	1724-A Bissell Ave.	Richmond	Be. 5-0670
Wells, O. T.	6 Hercules Ave.	Hercules	Pl. 8-3067

AUTO SHOP

Enos, A. T. (Leaderman)	2379 Prune Street	Pinole	Pl. 8-3375
Goularte, Paul	Ellerhorst Street	Pinole	Pl. 8-3502

PIPE SHOP

Atchison, A. A.	1 Park Street	Hercules	Pl. 8-3094
Howard, Don	1833 - 17th St.	San Pablo	Be. 3-4660
McCall, Daniel	21 Park Street	Hercules	Pl. 8-3780
Payne, John	15 Santa Fe Ave.	Hercules	Pl. 8-3384
Pearce, Bobby	6 Dunham Ave.	Hercules	Pl. 8-2234
Sparks, Joe	9 Hercules Ave.	Hercules	Pl. 8-2609
Williams, Ralph (Foreman)	3 Pinole Street	Hercules	Pl. 8-3697

CARPENTER SHOP

Gozzano, Louis	963 Valley Ave.	Pinole	Pl. 8-3370
Lewis, Robert	2547 Downer St.	Pinole	Pl. 8-3522
McGillivray, Nigel (Leaderman)	13900 San Pablo Ave. (Space 17)	San Pablo	Be. 2-8931
Silva, Wm.	949 - 3rd Avenue	Pinole	Pl. 8-3373

WELDING SHOP

Doidge, William	6 Bay Street	Hercules	Pl. 8-1041
Ostlund, L.	202 Wellington Ave.	Concord	Gl. 8-4174
Sassone, J.	200 Buena Vista Dr.	Pinole	Pl. 8-3307
Scarsella, H. (Foreman)	5 Pinole Street	Hercules	Pl. 8-2249
Turner, C. E.	3 Park Street	Hercules	Pl. 8-3033
Waford, F.	8 Hercules Ave.	Hercules	Pl. 8-3388
Willis, N.	221 Janet Lane	Concord	Mt. 2-2878

MACHINE SHOP

Belish, B. J.	2421 W. Hyde Ave.	Richmond	Be. 2-1232
Bollinger, Wm.	14 Santa Fe Ave	Hercules	Pl. 8-3371
Clark, C. C.	2241 Buena Vista Ave.	Alameda	La. 3-2173
Classick, John	2640 Castro Road	San Pablo	Ca. 3-3436
	(Shawwood Forest)		
Epley, Ray	824 East Meadow	Pinoia	Pl. 8-3630
Gery, Eugene	271 Calista Dr.	Pinoia	Pl. 8-3210
Hansen, W. W.	1670 San Pablo Ave.	Pinoia	Pl. 8-3664
Kretzer, H.	3121 Gervin Ave.	Richmond	Be. 4-0462
Lane, Chas.	8 Skelly Ave.	Hercules	Pl. 8-2669
Pederson, Lars (Norwegian)	828 Magnolia Lane	Pinoia	Pl. 8-3767
Redmond, Wm. C.	1724-A Alameda Ave.	Richmond	Be. 2-0670
Wells, O. T.	6 Hercules Ave.	Hercules	Pl. 8-3067

AUTO SHOP

Enos, A. T. (Lebanon)	2379 Irvine Street	Pinoia	Pl. 8-3372
Gonzalez, Paul	Elizabet Street	Pinoia	Pl. 8-3502

FIRE SHOP

Archison, A. A.	1 Park Street	Hercules	Pl. 8-3034
Howard, Don	1823 - 17th St.	San Pablo	Be. 3-4660
McCall, Daniel	21 Park Street	Hercules	Pl. 8-3760
Payne, John	12 Santa Fe Ave.	Hercules	Pl. 8-3364
Pearce, Bobby	6 Duhan Ave.	Hercules	Pl. 8-2234
Sparks, Joe	9 Hercules Ave.	Hercules	Pl. 8-2609
Williams, Ralph (Norwegian)	3 Pinoia Street	Hercules	Pl. 8-3671

CARPENTRY SHOP

Gonzano, Louis	963 Valley Ave.	Pinoia	Pl. 8-3370
Javis, Robert	2347 Duhan St.	Pinoia	Pl. 8-3223
McCallum, Nigel (Lebanon)	1300 San Pablo Ave.	San Pablo	Be. 2-8931
Shiva, Wm.	949 - 3rd Avenue	Pinoia	Pl. 8-3373

WELDING SHOP

Dodds, William	6 Bay Street	Hercules	Pl. 8-1011
Estlund, J.	202 Wellington Ave.	Concord	Cl. 8-1174
Escoe, J.	200 Buena Vista Dr.	Pinoia	Pl. 8-3307
Goetzell, H. (Norwegian)	2 Pinoia Street	Hercules	Pl. 8-2249
Turner, O. E.	3 Park Street	Hercules	Pl. 8-3023
Ward, E.	8 Hercules Ave.	Hercules	Pl. 8-3388
Willis, H.	221 Janet Lane	Concord	Ma. 2-2878

RIGGERS

Chisum, C.	1 Bacchus Ave.	Hercules	Pl. 8-3439
Darrah, E.	4197 Rita Dr. Vine Hill	Martinez	Ac. 8-0284
Goforth, B.	9 Bacchus Avenue	Hercules	Pl. 8-1410
Livermore, E. (Leaderman)	7 Bacchus Avenue	Hercules	Pl. 8-2342
Smallwood, Wm.	1 Bay Street	Hercules	Pl. 8-3387

MASON SHOP

Farris, Raymond	2782 Rollingwood Dr.	San Pablo	Be. 4-8269
Lasnini, Vernon	2408 Paloma	Pinole	Pl. 8-2562
Randall, E.	750 Second Street	Rodeo	Rodeo 4573

PAINTERS

Banducci, Wm.	8 Bay Street	Hercules	Pl. 8-3791
Fosket, M.	2235 Orleans Dr.	Pinole	Pl. 8-3782
Hazen, H.	1401 Barrett Ave.	Richmond	-
Rard, N.	2572 Henry St.	Pinole	Pl. 8-3009
Santaella, Tony (Leaderman)	142 Dunham Ave.	Hercules	Pl. 8-3734

SHOP HELPERS AND UTILITY MEN

Ceselini, V. H.	1400 Valley Road	Pinole	Pl. 8-3718
Hoover, K.	13 Park Street	Hercules	Pl. 8-2480
Knight, R.	1371 Manor Drive	San Pablo	Be. 5-8758
Langford, H.	7 Skelly Ave.	Hercules	Pl. 8-3438
Maderos, F.	890 Pine Street	Pinole	Pl. 8-3459
Pfau, R.	1327 Richmond St.	El Cerrito	Be. 2-2145

RIGGERS

Christie, C.	1 Baseline Ave.	Hercules	Pl. 8-3439
Darrah, E.	4197 Hite Dr. Vine Hill	Hercules	Ac. 8-0284
Goff, B.	9 Baseline Avenue	Hercules	Pl. 8-3410
Livermore, E. (Leadman)	7 Baseline Avenue	Hercules	Pl. 8-3442
Smallwood, Wm.	1 Bay Street	Hercules	Pl. 8-3387

MASON SHOP

Perkins, Raymond	2782 Rollingwood Dr.	San Pablo	Pl. 4-8269
Leahman, Vernon	2408 Palms	Pinole	Pl. 8-2562
Randall, E.	750 Second Street	Kobos	Kobos 4573

PAINTERS

Bandbeck, Wm.	8 Bay Street	Hercules	Pl. 8-3791
Booke, M.	2235 E. Jean Dr.	Pinole	Pl. 8-3782
Harmon, H.	1401 East St. Ave.	Richmond	
Hart, H.	2775 Henry St.	Pinole	Pl. 8-3009
Bandbeck, Tony (Leadman)	1425 Duham Ave.	Hercules	Pl. 8-3734

SHOP BUILDERS AND UTILITY MEN

Casellini, V. H.	1400 Valley Road	Pinole	Pl. 8-3718
Hoover, E.	13 Park Street	Hercules	Pl. 8-2480
Knight, R.	1371 Market Drive	San Pablo	Pl. 8-2758
Langford, H.	7 Emily Ave.	Hercules	Pl. 8-3438
Mahoney, V.	890 Pine Street	Pinole	Pl. 8-3459
Plan, A.	1327 Richmond St.	Elvertino	Pl. 8-2745

ORGANIZATION OF THE MAINTENANCE DEPARTMENT

The Maintenance Department is headed by the Master Mechanic who is directly responsible to the Mechanical Superintendent for satisfactory performance of the Maintenance Department. Two Assistant Master Mechanics report to the Master Mechanic and assist him in the administration of the department.

The Master Mechanic and each of the Assistants are assigned the responsibility of directing the efforts of certain groups of craftsmen. For emergency or routine repairs of plant facilities, the person in charge of the particular craft required to effect the repair should be contacted.

The Master Mechanic is purposely limited to only two crafts, under his direct supervision in order that he may devote more time to the coordination of the activities of the department as a whole. He acts as middleman between the maintenance and engineering department in the setting up of work schedules, planning of work during shutdowns, and the establishment of definite plans and arrangements for the various items of work performed by the maintenance department. The two assistant master mechanics, having more crafts under their direct supervision, spend most of their time actively supervising the leadermen of the various crafts under their control.

Each craft in the Maintenance Department has a leaderman, who actually directs the activities of the craftsmen in the performance of their work. The leaderman is responsible to the Master Mechanic or one of his assistants for the satisfactory performance of the men under him. The leadermen work with the Master Mechanic and his assistants in the planning and scheduling of the maintenance work. Craftsmen are directly responsible to their leadermen for satisfactory performance in their work.

Functions of the Maintenance Department: Maintenance on the Hercules Plant is accomplished through the use of a combination of small groups of area mechanics, under direct supervision of the department to which they are attached and a larger central maintenance department which is called upon by any department to take care of major repairs and overhauls. Primary responsibility for maintenance of operating equipment and operating buildings rests with each operating department. The Ammonia and Acid Departments have area maintenance supervisors who are responsible to the department head for maintenance of their particular operations. Maintenance in the operating departments is the responsibility of the department head.

The Hercules Plant Maintenance Department is, therefore,

ORGANIZATION OF THE AIR FORCE

The Air Force is organized into three main branches: the Army Air Corps, the Navy Air Corps, and the Marine Air Corps. Each branch is responsible for the development, maintenance, and operation of aircraft and related equipment. The Army Air Corps is the largest and is responsible for the majority of the Air Force's operations. The Navy Air Corps is responsible for the development and operation of aircraft for the Navy. The Marine Air Corps is responsible for the development and operation of aircraft for the Marine Corps.

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also primarily a service department, which assists the area maintenance groups in the maintenance of plant facilities.

The Maintenance Department is charged with the responsibility of maintaining all general buildings and shops, tram tracks, automobiles, and trucks, outside lines, and all other equipment which does not come under the direct supervision of any given operating department; maintenance and control of Tool Room facilities, cooperates with Supplies Stores in the maintenance of adequate stocks of spare parts; keeps a daily log of major items of work performed by the Maintenance Department.

also subject to the same conditions as the other
minerals of the same class.
The following is a list of the minerals of the same class
which are subject to the same conditions as the other
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MAINTENANCE DEPARTMENT WORK ORDER SYSTEM

Method of Work Authorization General: Every job performed by the Maintenance Department shall be covered by a work order issued by authorized persons in the various departments. The operating department heads shall advise the Engineering Department as to which persons in their department are authorized to originate work orders.

With the exception of emergency breakdowns, no work will normally be undertaken by the Maintenance Department without a written work order. Work orders covering emergency breakdowns shall be issued as promptly as possible following the breakdown.

A single work order may be issued to cover several items of work to be performed during a planned shutdown of plant facilities. This work order must be accompanied by three copies of a list which covers in detail all work to be performed during the shutdown. Planned shutdown work should be arranged by the operating department through the Mechanical Superintendent.

Work orders covering work which cannot be classified as an emergency or planned shutdown, but which, for good reason, is considered a "rush" job with a mandatory completion date, will be given top priority on the Maintenance Department work schedule, if the Mechanical Superintendent is advised of the urgency of the work.

Work Authorization - Work Order Preparation: The original and one carbon copy of each work order shall be delivered to the Master Mechanic or one of his assistants and shall include all of the following items on the order:

- (a) Charge code number.
- (b) Completion date required (if any).
- (c) Clear statement of work required.
- (d) Need for work. (This will assist the Maintenance Department in the assignment of priorities).
- (e) Signature of originator.

Insofar as is possible, each work order shall request a specific job on a single plant building, structure, pipeline, piece of equipment, etc. A work order covering planned shutdown work, which requires prior preparation, shall be issued sufficiently in advance to allow completion of all preliminary work.

Work Order Procedure - Maintenance Department: The Maintenance Department shall assign a number to be stamped on

INSTRUCTIONS TO THE JURY

The first duty of the jury is to listen to the evidence presented to them by the parties to the case. They must listen carefully to the testimony of the witnesses and to the arguments of the attorneys. They must also listen to the instructions of the court.

The second duty of the jury is to weigh the evidence. They must decide whether the evidence is credible and whether it supports the claims of the parties. They must also decide whether the evidence is sufficient to prove the facts of the case.

The third duty of the jury is to apply the law. They must decide whether the facts of the case fit the legal principles that the court has instructed them to apply. They must also decide whether the law requires a verdict in favor of one of the parties.

The fourth duty of the jury is to return a verdict. They must decide whether the evidence supports the claims of the parties and whether the law requires a verdict in favor of one of the parties. They must then return a verdict to the court.

The fifth duty of the jury is to follow the instructions of the court. They must listen to the instructions of the court and follow them carefully. They must also follow the instructions of the court when they return a verdict.

- (1) Listen to the evidence.
- (2) Weigh the evidence.
- (3) Apply the law.
- (4) Return a verdict.
- (5) Follow the instructions of the court.

The jury must decide the facts of the case and apply the law to those facts. They must return a verdict to the court based on their findings. They must also follow the instructions of the court throughout the trial.

The jury must decide the facts of the case and apply the law to those facts. They must return a verdict to the court based on their findings. They must also follow the instructions of the court throughout the trial.

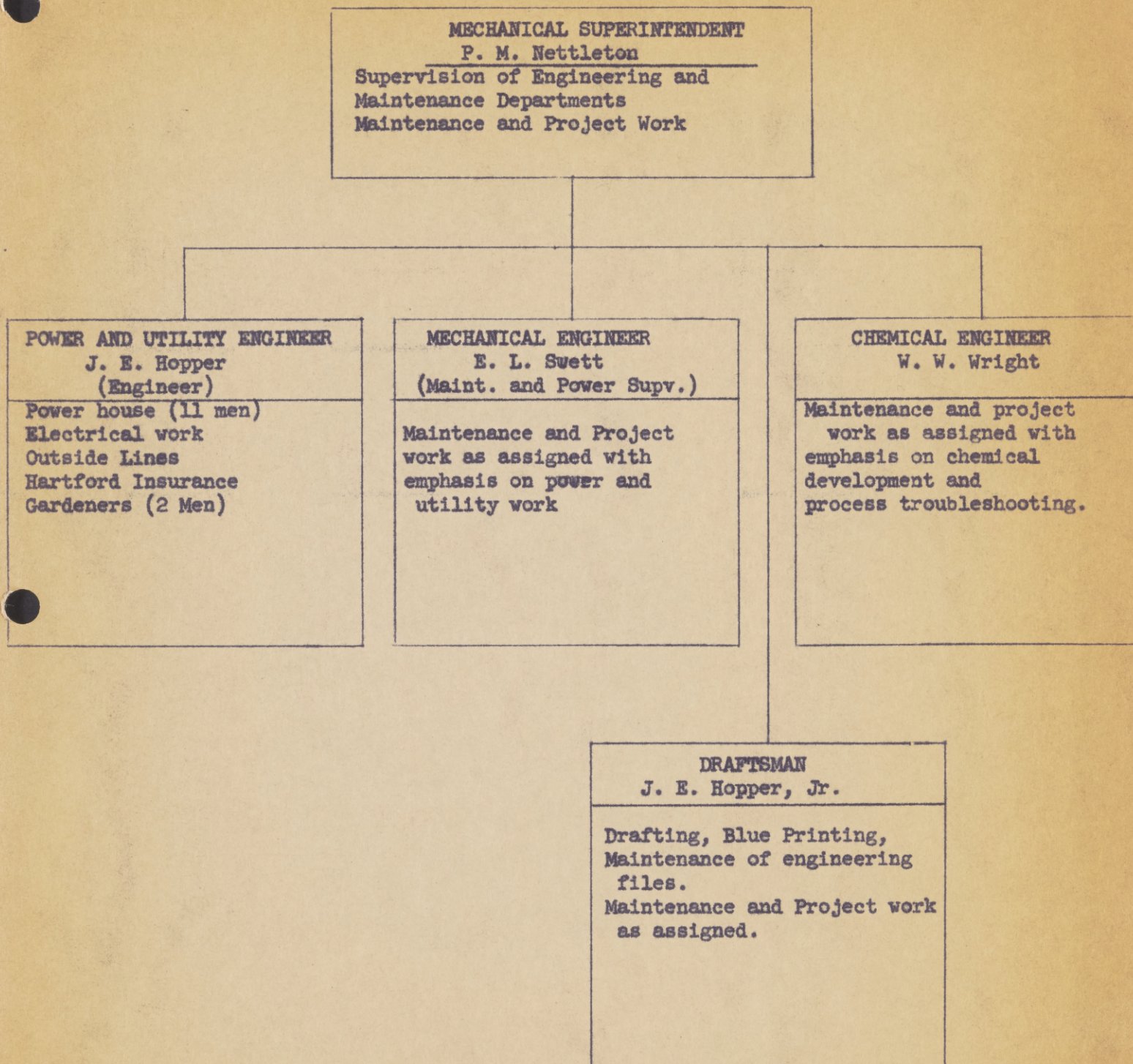
each copy of the work order. The original copy of the work order shall be retained by the Maintenance Department Supervisor to be filed in a master work order file under the department originating the work order. The carbon copy of the work order shall be filed by crafts in suitable binders and retained by the Maintenance Department Supervisor, or one of his assistants (depending upon the craft) until the work is scheduled in the shop. Upon scheduling the work, the carbon copy of the work order shall be turned over to the leaderman of the particular craft involved. The leaderman shall retain the copy in a suitable binder, until the work order is completed.

At the end of each work day, the leaderman shall remove all work orders from the binder which were completed during the day, indicate the date the work was completed, and deliver the completed work orders to his supervisor along with the daily time card.

Weekly, the Master Mechanic shall remove from the master work order file the work orders completed during the previous week, add the date that the work was completed, and return the original copy to the department which originated the work order.

The carbon copy of the completed work order shall be filed by departments in a completed work order file in the Master Mechanic's Office.

ENGINEERING DEPARTMENT ORGANIZATION CHART.



NOTE:

Some member of the engineering or maintenance department devotes a minimum of four hours per week to the shop training program.



ENGINEERING DEPARTMENT

Organization of the Engineering Department: The Engineering Department is headed by the Mechanical Superintendent who is directly responsible to the Works Manager, or his Assistant, for satisfactory performance of the Engineering and Maintenance Departments. Two Engineers and a draftsman, working with and reporting to the Mechanical Superintendent complete the personnel of the Engineering Department.

Deliniation of responsibility among the various members of the Engineering Group is purposely kept quite flexible, in order that the varying work load might most efficiently be handled with the available work force.

Functions of the Engineering Department: The Hercules Plant Engineering Department is primarily a service department, and as such must cooperate fully with and receive the cooperation of the various operating departments in the performance of its functions.

The functions of the Engineering Department may be broadly broken down under the following headings:

1. Direction of the Maintenance Department.
2. Design and layout.
3. Projects.
4. Major repairs - operating departments.
5. Power and utilities.
6. Hartford insurance.
7. Motor records.
8. Engineering records.

Direction of the Maintenance Department: One of the primary functions of the Mechanical Superintendent is to administer the activities of the Maintenance Department.

He functions as the middle-man between operating departments and the Maintenance Department in at least the preliminary planning and scheduling of major repairs, overhauls, alterations to existing plant facilities, or the installation of new facilities. Therefore, any request by an operating department for the services of the Maintenance Department, except for routine maintenance and repair of plant facilities, should be directed to the Mechanical Superintendent. All requests for major alterations or additions to plant facilities, or for the scheduling of a planned shutdown for major repair or overhaul of plant equipment should be made through the Mechanical Superintendent.

The Mechanical Superintendent may assign any particular

problem or job to one of the engineers in the Engineering Group. The engineer so assigned will then enter into discussions with the operating department personnel regarding the details of any given job, and will direct the Maintenance Department in the performance of the work.

Design and Layout: The Engineering Department will cooperate fully with all operating departments toward the improvement of design or layout of plant facilities, so as to increase efficiencies and/or reduce down-time due to failures. Likewise it is a function of Engineering to work with Operations in the design and layout of new plant facilities. Discussion regarding desirable changes to existing equipment may be initiated by either the Engineering or Operating Department. Normally operating departments will initiate discussions regarding design and layout of proposed new facilities.

The Engineering Department is responsible for adherence to safety standards as set up by the Wilmington Engineering Department. Engineering drawings as required for any given job, will be prepared by the Engineering Department. The Engineering Department will write up specifications covering items of equipment and materials obtained from or work to be performed by outside firms. For all of these reasons it is essential that the Engineering and Operating Departments cooperate fully in problems dealing with design and layout of plant facilities.

Projects: The Project Engineer, in the Engineering Group, is primarily responsible for the duties associated with the preparation of appropriation requests and the direction and supervision of construction work covered by approved projects. Other members of the Engineering Department may be assigned to a particular project if there are more open projects than can be satisfactorily handled by the Project Engineer. Likewise the Project Engineer may be assigned to maintenance problems at times when the construction program is light.

Quarterly Construction Forecasts are prepared by the Engineering Department. Each Operating Department Head is contacted by the Project Engineer at the time the Forecast is being prepared in order that any new items, for their particular department, may be considered for being added to the Forecast. In general we should forecast any requirements for new facilities or major alterations to existing facilities which are contemplated within a period of the next two years. Operating Departments must prepare Forecast Reason Sheets for each new item pertaining to their department, which is to be added to the Forecast.

Any new item to be added to the Forecast must have the approval of the plant management.

The Forecast as submitted by the plant is reviewed and

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approved by the Wilmington Engineering Department and the General Manager of the department involved, before submission to the Board.

The Construction Forecast is used by Company Management in planning expenditures for expansion during the next two years. Plants should therefore strive to include all items contemplated so as to give the most accurate picture possible of anticipated expenditures.

The Engineering Department will prepare estimates for and generally assist in the preparation of Appropriation Request papers. Normally, Operating Department Heads will prepare Reason and Savings Sheets for all appropriations requests pertaining to their department. Likewise Department Heads must prepare Savings Reports on completed projects which claimed savings as a basis for the appropriation request.

The Engineering Department will, through the Purchasing Department, arrange for the services of outside contractors, if required on construction projects, and will direct all construction work, whether it be done by outside contractor or by plant forces. Any requests for changes on approved projects should be directed to the Engineering Department.

Major Repairs - Operating Departments: All requests by operating departments for major alterations or additions to plant facilities, or for the scheduling of a planned shut-down for major repair or overhaul of plant equipment, whether work is to be done by the Maintenance Department or by an outside contractor should be directed to the Mechanical Superintendent. Arrangements for outside contractors, if required, will be made by the Engineering Department.

Power and Utilities: The Power and Utilities Engineer is responsible for satisfactory operation and maintenance of all plant utilities, including the power house, outside lines, and pumping stations. This engineer should be contacted for discussions of any problem regarding these plant facilities.

Hartford Insurance: The Engineering Department maintains records on all fired and unfired pressure vessels, on the plant, which are insured, by the Hartford Steam Boiler Inspection and Insurance Company. Any alteration to or any change of service for any insured vessel can only be made with the approval of the Hartford Insurance Company. Periodic inspections of insured vessels are required by Hartford. Arrangements for work on or inspection of insured vessels should be made through the Power and Utilities Engineer.

Motor Records: The Engineering Department is responsible for the maintenance of records on all electrical motors on the plant. The Power and Utilities Engineer keeps these records and issues C.E.V's. to transfer motors between the

various Plant accounts. All motors which are not in use must be carried in the Extra Machinery Account. Motors taken out of Extra Machinery must be transferred from that account to the appropriate operating building number. Since the Hercules motor records must be kept in agreement with Wilmington Extra Machinery Records it is imperative that no motor be removed or installed without notifying the Engineering Department. Since motors will normally be installed or removed by the plant electricians, it is their responsibility to notify the Power and Utilities Engineer of all motor transfer.

Engineering Records: The Draftsman is responsible for the maintenance of Engineering Department files, including the general, project, drawing and catalog files. All information received by operating departments pertaining to approved projects should be turned over to the Engineering Department for inclusion in the project files. The Engineering Department will attempt to maintain adequate drawing files on all plant facilities. Drawings, project files, and other Engineering records will be made available to any member of the operating department. In order that the files may be properly maintained, it is requested that all material borrowed from the Engineering Department be promptly returned after the operating personnel is through with it.

PROJECTS

A project usually has its origin in one of the operating departments. The first step in the preparation of a project is to place it on the Construction Forecast, a compilation prepared quarterly by the Engineering Department of the plant's anticipated construction activity and expenditures for the coming two years. The first time an item appears on the Construction Forecast it must be accompanied by a forecast reason sheet. This sheet is usually prepared by the operating department head concerned. The operating departments will supply the Engineering Department with sufficient information so that the Engineering Department may make an estimate of the expenditure required for the proposed project.

The next step in the preparation of a project is the preparation of the project papers, also known as Appropriation Request Papers. This set of papers requests authority from the management to do specified work for a specified amount of money.

Project papers must be prepared for all work involving expenditures of more than \$1500 and chargeable to Capital Account. Projects should be prepared for all jobs of replacement where a functional unit is replaced such as a whole tank, pump, motor, etc. The reason for this is that the old units are written off to depreciation and the new units are capitalized. Projects are not required for repair jobs. The Wilmington Engineering Department's interpretation of the types of repair jobs for which projects are not needed include all kinds of regular maintenance work, repairs to buildings, painting, repairs to roads, repairs and replacement of parts of equipment such as rewinding motors, replacing pump impellers, replacing boiler tubes, brick work, repairs to tanks, etc.

Project papers are made up of the following sheets:

Sheet 1 of 6 - Face Sheet

Sheet 2 of 6 - Reason Sheet (When supplemental reason sheets are needed, they should be added and numbered 1,2,3, etc., after the title Supplementary Reason Sheet)

Sheet 3 of 6 - Savings Sheet

Sheet 4 of 6 - Estimate Sheet (All additional sheets needed to be added and numbered)

Sheet 5 of 6 - Change in Plant Value

The first part of the report is a summary of the work done during the year. It is a very brief summary, but it gives a good idea of the work done. The second part of the report is a detailed account of the work done during the year. It is a very detailed account, but it is also very interesting. The third part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting.

The fourth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting. The fifth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting.

The sixth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting. The seventh part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting. The eighth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting.

The ninth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting. The tenth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting.

The eleventh part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting. The twelfth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting.

The thirteenth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting. The fourteenth part of the report is a list of the names of the people who have helped me during the year. It is a very short list, but it is also very interesting.

Sheet 6 of 6 -- Distribution of Charges

Estimate Sheet - Sheet 4 of 6: In preparing a project it is best to first prepare a detailed estimate as the figures from the estimate sheet must be used on most of the other sheets. This sheet is normally prepared by the Engineering Department. The operating department will work with the Engineering Department in the design and layout of proposed facilities. The Engineering Department will make the necessary field checks, preliminary drawings and sketches necessary to prepare a detailed estimate of the material and labor required for the job. Material and labor costs are obtained from quotations secured by the Purchasing Department from cost records on file in the Engineering and Purchasing Departments and from past experience in the field on similar work.

Since the estimate sheets are used by the Home Office as a guide for the assignment of sub-accounts and also as an aid in making the appraisal on the completion of the work, they are to be made up of the following summary items:

- Dismantling and moving
- Foundations
- Buildings
- Apparatus
- Outside water lines
- Outside steam lines
- Outside air lines

10 per cent A. & S. for Engineering and Supervision should be added to the total estimate of material and labor.

1 per cent P.I. or Personal Injury (of labor only) should be added.

10 per cent contingencies is taken after the above has been totalled.

The amount of the project is the total of the estimated labor and material and the above-noted percentages.

Change in Plant Value - Sheet 5 of 6: This sheet, normally prepared by the Engineering Department, is used to itemize changes in plant value through depreciation. Buildings, foundations, A. & E., piping, electrical wiring, etc., which are to be dismantled, removed or relocated as indicated by the D&M items of the estimate are to be listed on this sheet.

Distribution Charges - Sheet 6 of 6: This sheet, normally prepared by the Engineering Department, is used to show the distribution of the money being requested. Plant increases should be charged with capital expenditures for new facilities

or additions or betterments thereto. Depreciation should be charged with all retirements of facilities regardless of whether the retirement is due to wear and tear or obsolescence and with the applicable dismantling and moving costs. Operations should be charged with expense items covering maintenance, repairs, etc., only.

Face Sheets -- Sheet 1 of 6: This sheet, normally prepared by the operating department head, is a summary of the project. The title is to be as short as possible as the project title must be written many times on material lists, purchase orders, appropriation statements, etc. The distribution of charges will be filled in by the Appraisal Division in Wilmington. Present and proposed facilities should be described in short paragraphs and in general terms. Reason for the expenditure is to be summarized from the Reason Sheet.

Reason Sheet -- Sheet 2 of 6: This sheet is normally prepared by the head of the operating department originating the project. The Reason Sheet must show all of the essentials of the project concerning (a) present facilities, (b) why they are inadequate, and (c) what is proposed under the project. If supplementary Reason Sheets are to be attached, give a summary of the project data on sheet 2 of 6 and under that summary write, "See Supplementary Reason Sheet." Then attach as many supplementary sheets as are needed to adequately explain the project.

Savings Sheet -- Sheet 3 of 6: This sheet is normally prepared by the head of the operating department involved in the project. Any savings claimed on the project should be figured in detail and the total savings entered. All references to taxes and savings after taxes are to be left blank by the plant.

Part II Requests: Part II Requests are submitted on all projects that either over-run or under-run the face value of the project by 15 per cent. They are usually prepared by the Engineering Department and submitted as soon as it is known that sufficient funds have not been appropriated to complete work authorized. In the event the amount necessary for the specific purpose involved has been under-estimated and completion of the job will over-run the amount authorized by 15 per cent, the work shall be discontinued immediately and no further expenditures made until written or telegraphic approval by the Home Office has been obtained. The amounts originally appropriated not including the 15 per cent over-run, shall cover the entire cost of the work involved including engineering, superintendence, contingencies, etc., and no over-run will be allowed on the total amount so appropriated.

Project Procedure: Four copies of the project are sent to the Wilmington Engineering Department for processing. One copy goes to the Estimating Division for checking, one copy to Purchasing for review and notation of various types of

materials to be ordered by them, one copy to the Safety Division, and the fourth copy filed by the Wilmington Engineering Department. The copy that is checked by the Estimating Division is circulated among the members of the Engineering Staff who are believed to be interested in seeing or signing the project. The project then goes to the Chief Engineer, the Director of Engineering, the Director of Operations, and then to the General Manager. From this point on the project travels in one of the following various channels depending on the amount: (1) If the project is for an amount not in excess of \$30,000 the project may be approved by the General Manager of the department for which the project was made. (2) For amounts in excess of \$15,000 but not in excess of \$30,000 the project may be approved by the Chairman of the Board of Directors, the Chairman of the Executive Committee, or the President, or in his absence or inability to act, Mr. L.M. Bent who has been designated to act. (3) For amounts in excess of \$30,000 the Executive Committee or the Board of Directors, provided however that no authorization by the Executive Committee in excess of \$250,000 shall become effective until approved by the Finance Committee of the Board of Directors.

If the project has been approved by the various authorities, it is returned to the Wilmington Engineering Department where it is assigned a project number and accounts. A copy is transmitted to the plant with the notations by the Purchasing Department as to the purchases of the materials.

Upon receipt of the approved project, the Engineering Department prepares necessary drawings and material lists. The Purchasing Department issues purchase orders and expedites the materials and services listed on the material list. The Engineering Department directs and supervises the construction work. The work may be done either by our own maintenance department or by an outside firm or by a combination of both. Upon completion of the project, the closing notice will be prepared by the Engineering Department for transmittal to Wilmington.

Minor projects are prepared on the "Minor Appropriation Request" form for all projects that are between \$500 and \$1500. Items costing under \$500 may be approved by the plant manager. These projects are normally prepared by the department concerned. The Engineering Department will cooperate in making any estimate needed. Minor projects are forwarded to the Wilmington Engineering Department and the plant will wait advice of approval from that department before making the expenditure.

PLANT PURCHASING PROCEDURE

Following is an outline of the procedure involved in the procurement of material by the Purchasing Department:

Requisition -- Who Prepares: The delegation of authority to make out requisitions rests with the Plant Manager. Persons usually so authorized are department heads, their assistants, and leadermen. Inasmuch as all requisitions must be approved by the Works Manager, or the Assistant Works Manager, the latter have complete control over the matter of authority.

How the Requisition is Prepared: The following information is essential to the issuance of a requisition: (a) the date the material is required; (b) the quantity of material desired; (c) the description of material; (d) accounting charge; (e) the purpose for which the material is desired; (f) quantity of material on hand and quantity ordered stated in terms of weeks supply, where applicable.

The Date Material is Required: The date should be specific and consistent with the known facts. Job planning and timely issuance of a requisition can contribute immeasurable benefits to our operations. Generally deliveries average about as follows:

Local sources	-- About 7 to 10 days
Eastern sources	-- 30 to 60 days
Essential material-	45 to 90 days

Quantity of Material: In specifying quantities it should be borne in mind that extra charges are frequently made for broken packages, irregular lengths and sizes, cutting, packing, minimum quantities, etc. Therefore, we should specify quantities which will avoid extra charges as much as possible consistent with our current inventory policy.

Description of Material: The proper material should be selected for the purpose. It is sometimes desirable to weigh and discuss this action with considerable thought since it is frequently at this point in the cycle of material procurement that the greatest savings can be gained. In arriving at a decision it should be remembered that the price is frequently not the ultimate cost.

The material required should be described as completely as possible. Catalog numbers, figure numbers, serial numbers, (in the case of parts) should all be shown whenever possible. One of the major sources of difficulty to a purchasing department lies in inaccurate and incomplete description of material.

In some cases it is very desirable to show whether an equal

product of another manufacture is acceptable, or whether a substitute product is acceptable.

Accounting Charge: The correct accounting charge should be shown to insure accurate costs and to avoid loss of time caused by carelessness in this regard. If the maker of a requisition is in doubt concerning the correct charge he should consult an accounting code book, or contact the Chief Clerk.

Separate requisitions should be made out in the following instances:

1. When it is evident that the material must be procured from more than one source.
2. Project material.
3. Essential materials.
4. Outside contractors.
5. Service work.
6. Rentals.
7. Repair work (such as instruments, gauges, etc.).

Purpose of Material: The purpose for which the material is required should be shown in sufficient detail to enable the Works Manager or the Assistant Works Manager to approve or disapprove the purchase of the material. This information is also very helpful to the buyer when negotiating with the supplier, for if the supplier knows what the material is to be used for he can frequently suggest ways by which we can effect savings.

Handling of the Requisition - Routing: After the requisition has been made out it should be routed to the Buyer. If the maker has reason to feel that approval by the Works Manager or the Assistant Works Manager is in doubt without additional reasons being presented for the need for the material he should contact either of the aforementioned before presenting the requisition to the buyer.

Approval of Requisition: All requisitions must be approved by the Works Manager, or the Assistant Works Manager before the material can be purchased. In the event an emergency arises and neither of the aforementioned are readily available the matter should be referred to the Buyer.

Emergency or "Rush" Requisitions: Concurrently with the issuance of a "rush" requisition, the maker should contact the Buyer and advise him of all of the facts of the situation. The Buyer will then be in a position to exert his best efforts to obtain the material as quickly as possible.

Receipt and Inspection of Material: When material is received it is checked by the Storekeeper to see if it agrees with the purchase order. If the material is not as ordered the matter should be referred to the buyer, and if it is decided to return the material to the supplier procedure should be followed as described below under "Purchase Return Orders." In notifying

Section of another country is not a part of the country in which it is situated.

According to the provisions of the law, the country in which the land is situated is the country in which the land is situated. It is not a part of the country in which it is situated.

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1. There is no doubt that the material must be given.
2. The material must be given.
3. The material must be given.
4. The material must be given.
5. The material must be given.
6. The material must be given.
7. The material must be given.
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the buyer of defective or incorrect material specific information should be given, in writing, stating (a) the order number; (b) what we ordered and what we received; (c) the exact nature of our complaint. Most suppliers will not accept the return merchandise without our first securing their approval, hence, the necessity of our supplying them with all of the necessary facts. It should also be remembered that when incorrect material is furnished due to our error suppliers often do not allow us full credit for the material returned.

Claims: When material is received which appears to have been damaged in transit the buyer should be promptly notified and furnished with a written report along the lines indicated in the above paragraph. When such damaged material first is discovered it is important that the person receiving the material have another person substantiate the facts of the matter. Preferably, this other person should be the carrier's representative (truck driver, railroad agent, etc.), however, if he is not available then another employe would serve the purpose. The report to the buyer should include the names of all persons having knowledge of the matter. If damage is discovered at the time of delivery by the carrier, the carrier's representative should be requested to state the damage on the receipt and acknowledge same, leaving a copy of the receipt with us.

Short Shipment: When material is checked in short the buyer should be promptly notified and the person receiving the material should follow procedure along the lines outlined above.

Return of Material: The return of material to the vendor, or the shipment or removal of material from the plant, wherever such movement of material relates to a purchase order already issued or to be subsequently issued, should never be made without first securing the approval of the Purchasing Department. After securing such approval the following steps should be taken:

1. Prepare the material for shipment, and arrange for transportation to the usual loading point accessible to the carrier. Parcel post and express shipments may be brought to the office or left with the Storekeeper for handling by our truck driver.
2. Make out shipping notice showing:
 - a. Name of supplier
 - b. Quantity and description of material
 - c. Reason for shipment
 - d. Order number applicable
 - e. Weight of shipment
 - f. Location of shipment on plant (loading point).
3. If replacement material is required, issue a new requisition for same and handle in the usual manner.

The issuance of shipping orders, in accordance with the above instructions, is as essential and necessary to our system and records as are the shipping orders which cover sales of our products to our customers. We are closely checked by our Home Office for compliance with the above and you are, therefore, urged to lend your best effort to the end that we may avoid unnecessary correspondence and paper work concerning such transactions.

Expediting Shipment of Material: If material is not received within a reasonable time after the date shown on your requisition ask the buyer to expedite shipment. This request should be made either by:

- a. Sending the buyer a memorandum showing purchasing number, item and request to expedite, or
- b. Sending the buyer your copy (yellow copy) of the requisition, indicating item, and requesting to expedite. (He will ascertain the status of the order and return your copy of the requisition with the information requested).

Records: The Purchasing Department maintains the following records:

Purchase orders, in separate file folders, filed numerically.

Requisitions, filed by vendor's name.

Contracts, filed by commodity

Catalogs, filed by vendor's name

Bulletins, filed by commodity

Directories, such as Thomas' Register, McRae's, etc., which give the names of most firms, their products, trade names, etc.

Remarks: Stated very simply, the purpose of the purchasing function is to fulfill the needs of our plant in a PROFITABLE manner. This may be accomplished by purchasing the right material, in the right quantity, for delivery at the right time, and at the right price. These are the four essential elements to profitable purchasing, the absence of any one of which will render the transaction unprofitable.

The business of shipping goods, in accordance with the provisions of the Act, is hereby authorized to be carried out by the United States Shipping Board, or by any other person or persons, under the supervision and control of the United States Shipping Board, and the United States Shipping Board is authorized to make such regulations as may be necessary for the carrying out of the provisions of the Act.

Section 1. The United States Shipping Board is authorized to make such regulations as may be necessary for the carrying out of the provisions of the Act.

Section 2. The United States Shipping Board is authorized to make such regulations as may be necessary for the carrying out of the provisions of the Act.

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Section 9. The United States Shipping Board is authorized to make such regulations as may be necessary for the carrying out of the provisions of the Act.

Section 10. The United States Shipping Board is authorized to make such regulations as may be necessary for the carrying out of the provisions of the Act.

Section 11. The United States Shipping Board is authorized to make such regulations as may be necessary for the carrying out of the provisions of the Act.

YARD DEPARTMENT

The Yard Department consists of a part of the plant transportation, part of the plant shipping, part of the plant supplies and the labor pool.

Yard Transportation: The yard transportation consists of three gasoline locomotives. One, Number 16, is the plant service engine and delivers ingredients and other operating materials to the various operating houses. This engine should not be called to do a job requiring considerable time in loading and unloading. The engine with the labor crew should be used for such jobs. In order to allow Number 16 to render broader service to the entire plant Number 18 engine is used by the labor crews to facilitate their work and by the Acid Department to switch at the crystallizer when the regular engine crew is not working. Engine Number 12 is the spare engine and is furnished where needed when the regularly assigned engine is being repaired.

The yard crews load for shipping all grained nitrate of ammonia and all other miscellaneous materials including returnable containers. The yard receives, unloads and stores all ingredients and other operating materials and delivers same when requested.

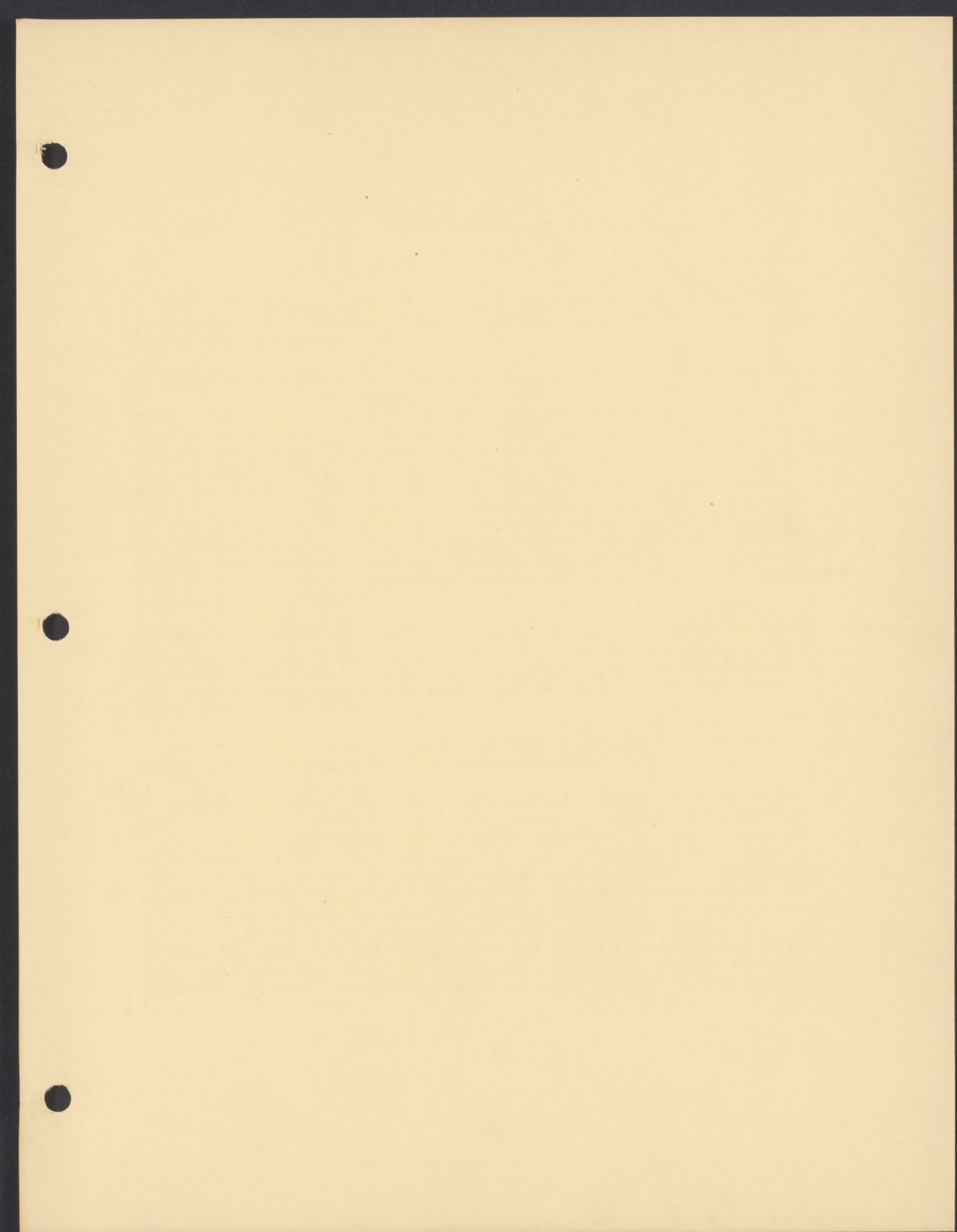
The yard receives new men for the plant, maintains the labor pool and furnishes laborers where needed.

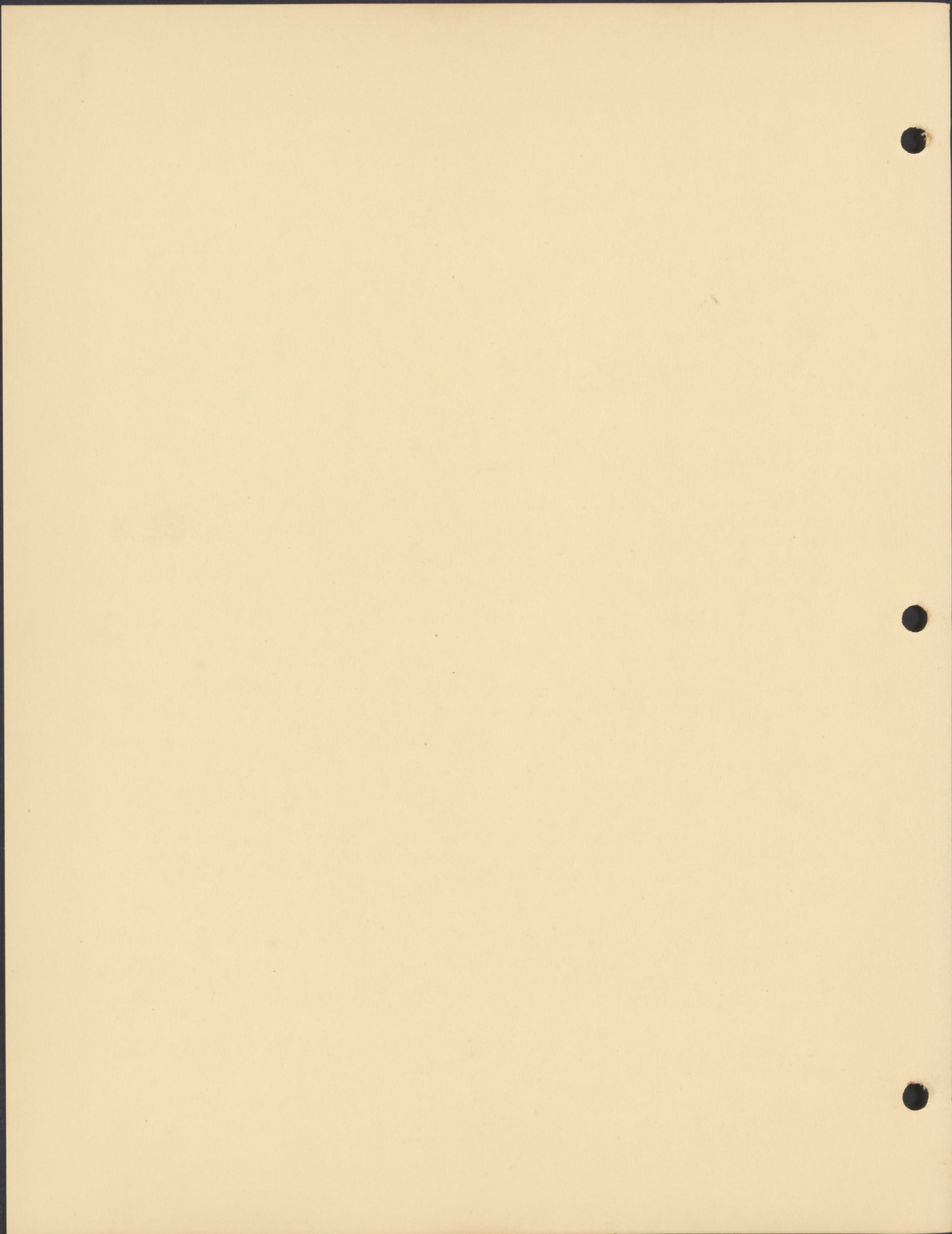
Plant Clean-Up: The plant clean-up is ordinarily done in two operations by the yard crew. The bin clean-up is ordinarily done once a week and no other rubbish is cleaned up at this time. Heavy rubbish, such as scrap lumber and other burnable materials, should be piled near a track so it can be picked up when opportunity permits. Salable metal should be piled near a track so that it can be picked up and delivered to the salvage yard. Returnable containers, when empty, should be prepared for returning for credit by properly cleaning and fastening the lid in place. The yard should then be notified to haul these containers to the proper storage area.

THE PROBLEM

The first problem is the lack of a clear definition of the term "problem". It is often used in a very general sense to mean any difficulty or question that arises in the course of an investigation. However, in a more technical sense, a problem is a specific question or task that requires a solution. This distinction is important because it determines the methods that can be used to solve the problem. For example, a problem that is well-defined and has a known solution can be solved using a specific algorithm. On the other hand, a problem that is ill-defined or has no known solution may require a more creative approach, such as brainstorming or trial and error.

The second problem is the lack of a clear understanding of the problem. This is often the case when a problem is first encountered. The person solving the problem may not have enough information to understand the problem fully. This can lead to a solution that does not address the problem or that is inefficient. To avoid this, it is important to take the time to understand the problem before attempting to solve it. This can be done by asking questions, gathering information, and identifying the key elements of the problem. Once the problem is understood, it can be broken down into smaller, more manageable parts that can be solved one at a time.



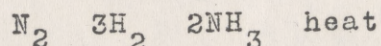


ANHYDROUS AMMONIA PLANT

Anhydrous ammonia is produced at our plant by the modified Claude process of high pressure synthesis utilizing pressures up to 1,000 atmospheres with suitable catalyst. The present nominal capacity of the plant is about 95 tons daily.

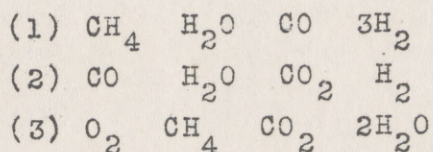
Due to the nature of the process the plant is operated continuously and each shift consists of seven persons; a supervisor, five operators and a furnace helper. In addition to the shift personnel there are seven people normally working week days to handle the caustic regeneration, catalyst manufacture, chemical analysis, and routine maintenance.

The process consists briefly of thermally reforming natural gas to form hydrogen mixed in the desired ratio with atmospheric nitrogen (3 volumes of hydrogen to one volume of nitrogen), compressing the resultant gases to 15,000 psig and then passing the scrubbed gases over a suitable catalyst at elevated temperatures where the nitrogen and hydrogen react to form almost pure anhydrous ammonia as in the following equation:



The operations are subdivided into four major areas: (1) Furnace, (2) Purification, (3) Compressor, (4) Synthesis.

Furnace: In the furnace area natural gas (99% methane, ethane, and propane) is first mixed with steam and flue gas (87% nitrogen) and the resultant gas mixture fed into the top of a series of stainless steel cracking tubes vertically suspended within brick lined furnace chambers. The tubes contain a special reforming catalyst and are externally heated by fuel and purge gas burners located in the furnace walls. Hydrocarbons in the gas mixture passing downward through the tubes, are reformed as in the following sample reactions:



Since the above reactions progress more rapidly at lower pressure, the cracking tubes are operated at 15-20 psig.

The cracked gas exiting from the lower ends of the tubes has the following approximate composition: CO_2 4%, CO 18%, H_2 54%, and N_2 24%, with a trace of CH_4 . The hot cracked gases are

ANNEX 1 - SUMMARY

The purpose of this report is to provide a summary of the results of the study conducted by the author. The study was designed to investigate the effects of the proposed system on the performance of the system. The results of the study are presented in the following sections.

The first section of the report describes the methodology used in the study. This includes a description of the system being studied, the experimental design, and the data collection methods. The second section presents the results of the study, including a comparison of the performance of the system with and without the proposed system. The third section discusses the conclusions of the study and the implications of the results.

The results of the study indicate that the proposed system has a significant positive effect on the performance of the system. This is evident from the comparison of the performance of the system with and without the proposed system. The results also suggest that the proposed system is a viable alternative to the current system. The conclusions of the study and the implications of the results are discussed in the following sections.

The following table summarizes the results of the study. The table shows the performance of the system with and without the proposed system. The results indicate that the proposed system has a significant positive effect on the performance of the system. The conclusions of the study and the implications of the results are discussed in the following sections.

(1) 10	(2) 10
(3) 10	(4) 10
(5) 10	(6) 10
(7) 10	(8) 10
(9) 10	(10) 10
(11) 10	(12) 10
(13) 10	(14) 10
(15) 10	(16) 10
(17) 10	(18) 10
(19) 10	(20) 10

The results of the study indicate that the proposed system has a significant positive effect on the performance of the system. This is evident from the comparison of the performance of the system with and without the proposed system. The results also suggest that the proposed system is a viable alternative to the current system. The conclusions of the study and the implications of the results are discussed in the following sections.

immediately cooled to 800 degrees F by direct injection of low pressure steam. The cooled gas then enters the bottom of a vertical cylindrical vessel, the CO converter containing an iron oxide catalyst loaded on internal trays.

In the CO converter much of the CO is converted into CO_2 by the water gas reactions, which also occurs to a slight extent in the cracking reaction and simultaneously releases an equal volume of hydrogen. The additional hydrogen formed in this step raises the hydrogen-nitrogen mixture to the desired 3:1 ratio. The converted gas exited from this vessel is composed roughly as follows: CO_2 17%, CO 1%, H_2 62%, and N_2 20%.

The hot gases leaving the CO converter are first cooled in a vertical waste heat boiler, then in a water contact cooler, and finally at a temperature of about 80 degrees F are sent to the gasometer and the compressor house.

The flue gases from the cracking furnaces also pass through waste heat boilers to generate steam before being exhausted to the atmosphere. A portion of the flue gas is further cooled and compressed to provide the necessary nitrogen for the cracking furnaces.

Compression: The compressor house contains two large electrically driven 2500 H.P. hyper compressors together with two smaller recirculating and a single booster compressor. The function of the compressors is to raise the pressure of the converted gas from atmospheric to 14,000-15,000 psig, because the synthesis reaction is most favorable at high pressures and low temperatures. The original or Ingersoll-Rand "hyper" consists of six compression stages: five on the main machine and a sixth stage in a separate JM-3 booster compressor. Suitable coolers are provided between successive compression stages to remove the heat of compression.

The converted gas entering the "hypers" still contains 17% CO_2 which is a poison to the synthesis catalyst and must be removed. After the third stage of compression, where the pressure is about 525 psig, the gas is diverted into the purification area.

Purification: In the purification step the carbon dioxide is scrubbed out first with water flowing countercurrent to the gas in the 85 foot high CO_2 scrubbers. The "scrubbed" gas leaving the CO_2 scrubber still contains 0.2-0.3% CO_2 and all gas finally passes through a caustic scrubbing column to remove the last traces of CO_2 . The purification area consists of numerous high pressure vessels, degas towers and electrically driven pumps to inject the necessary water and caustic solution into the various scrubbing columns.

The electrical energy expended in pumping the water to the CO_2 scrubbers under pressure is partly recovered in Pelton water wheels directly connected to the multi-stage water

injection pumps.

The CO_2 dissolved in the scrubbing water is exhausted to the atmosphere in release tanks and degas towers and the relatively CO_2 free water recirculated. The recirculating caustic solution is gradually converted mainly to Na_2CO_3 and is periodically replaced by a fresh batch and the spent batch regenerated by treatment with $\text{Ca}(\text{OH})_2$.

The scrubbed gas (CO 1%, H_2 76%, and N_2 23% with a trace of O_2 and CH_4) now returns to the inlet of the fourth compression stage and the pressure is increased from 515 psig to 15,000 psig at which pressure the gas finally enters the synthesis system after cooling.

Synthesis: The entire synthesis operation is located behind concrete barricades outside the rear of the compressor house. The scrubbed compressed gas at 15,000 psig now passes through separators to remove condensed moisture and oil, then enters the methanator bomb where the CO and O_2 are removed by catalytic conversion into water and methane. The catalyst is a promoted iron oxide similar to the ammonia synthesis catalyst but purposely less actively promoted.

The gases exited from the methanator are cooled and the condensed reaction products separated leaving a methanated gas of the following composition: CH_4 2%, H_2 74%, and N_2 24%.

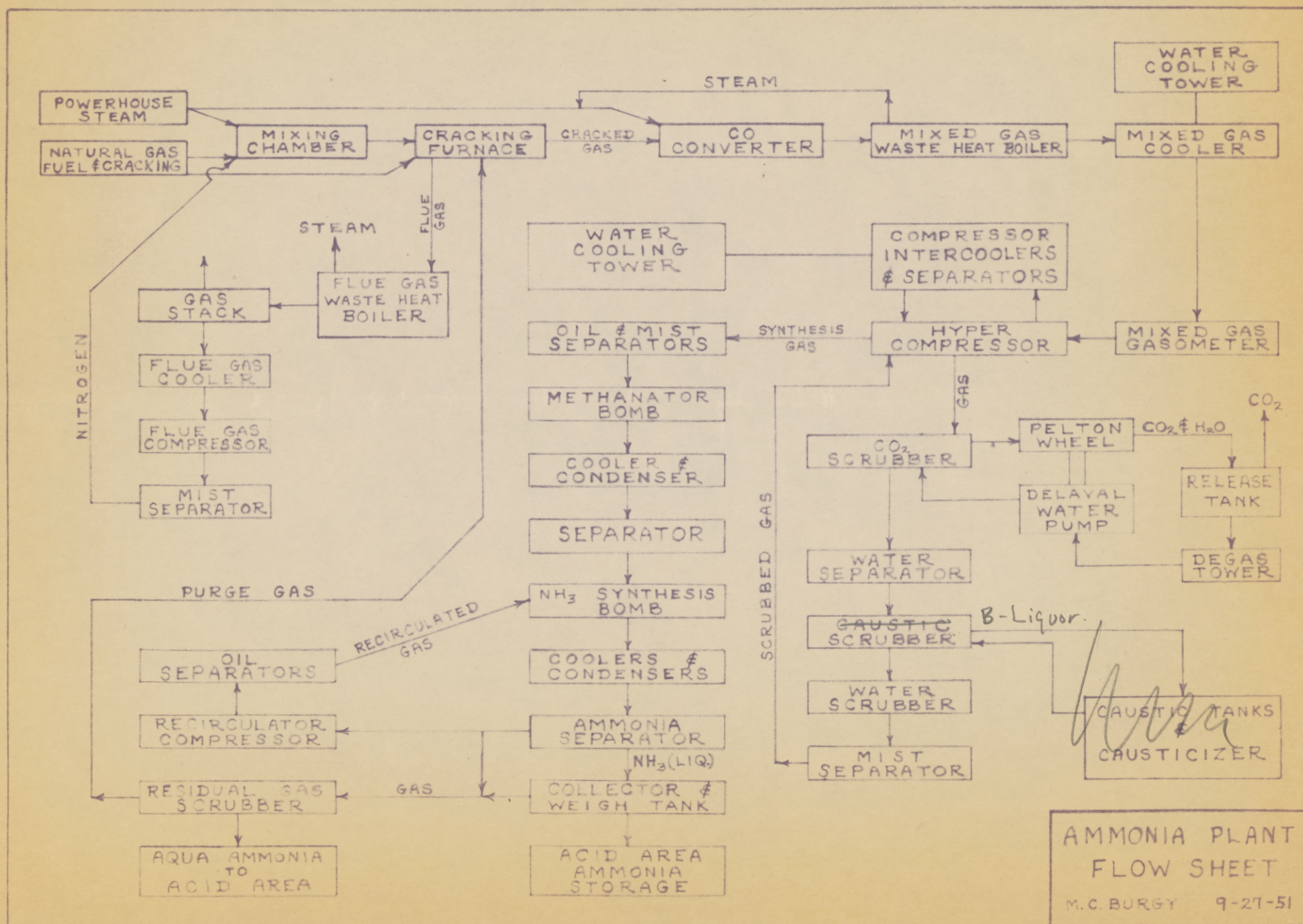
The methanated gas now enters the ammonia synthesis bomb for final conversion into ammonia. This reaction is highly exothermic and the converter is intricately designed to allow part of the heat of reaction to dissipate into the incoming gas stream. This makes it possible to keep the special alloy steels and other metals used in the converter assembly within their respective temperature limits and at the same time raises the incoming gas to the desired operating temperature.

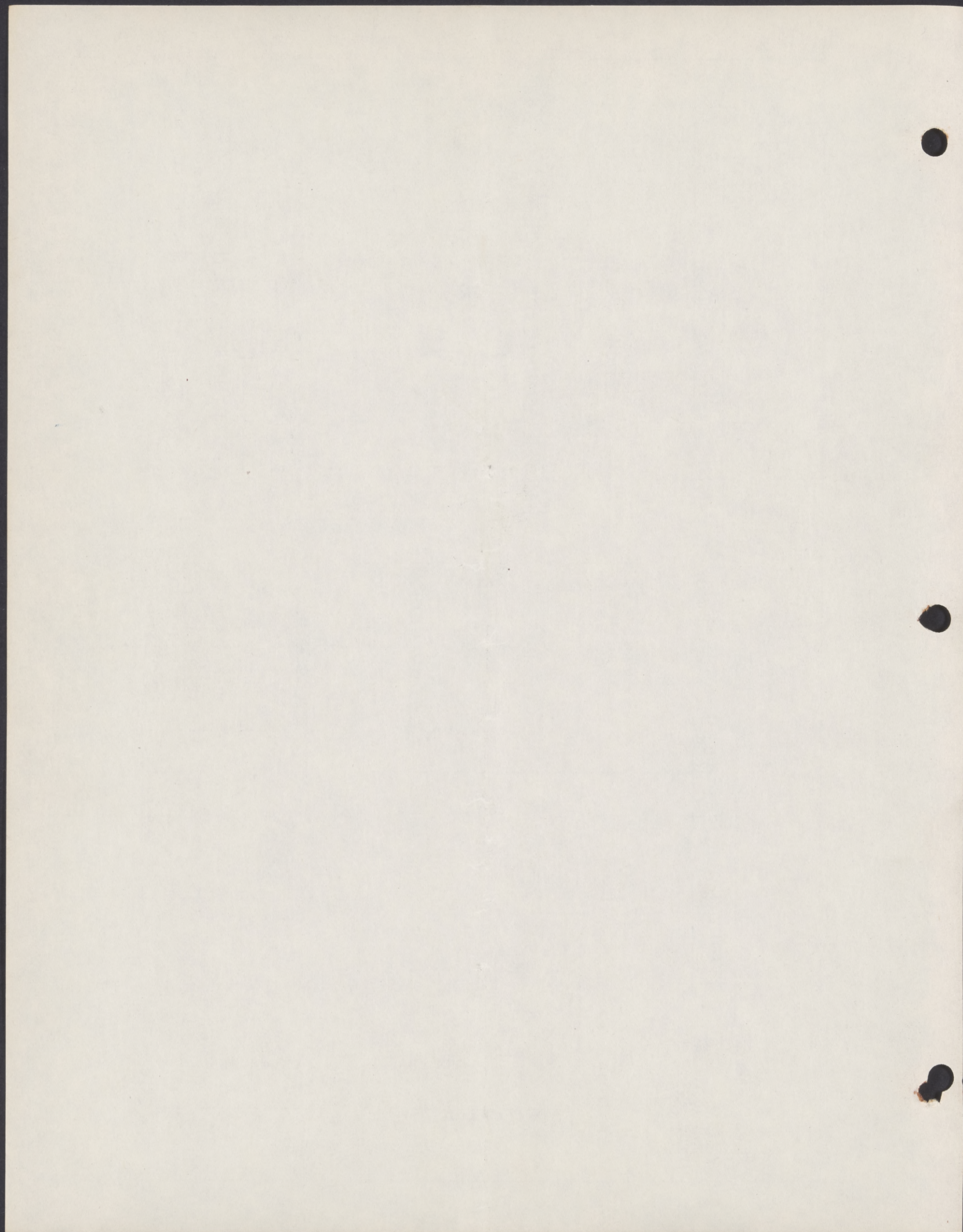
At temperatures and pressures in the range of 200-600 degrees C and 12,000-15,000 psig about 30% of the hydrogen and nitrogen react in the presence of the catalyst to form ammonia. The gases from the synthesis bomb are cooled, and the resulting liquid, anhydrous ammonia, is continuously withdrawn from a suitable separator, weighed or metered, and finally delivered at 165 psig into scale tanks in the acid area.

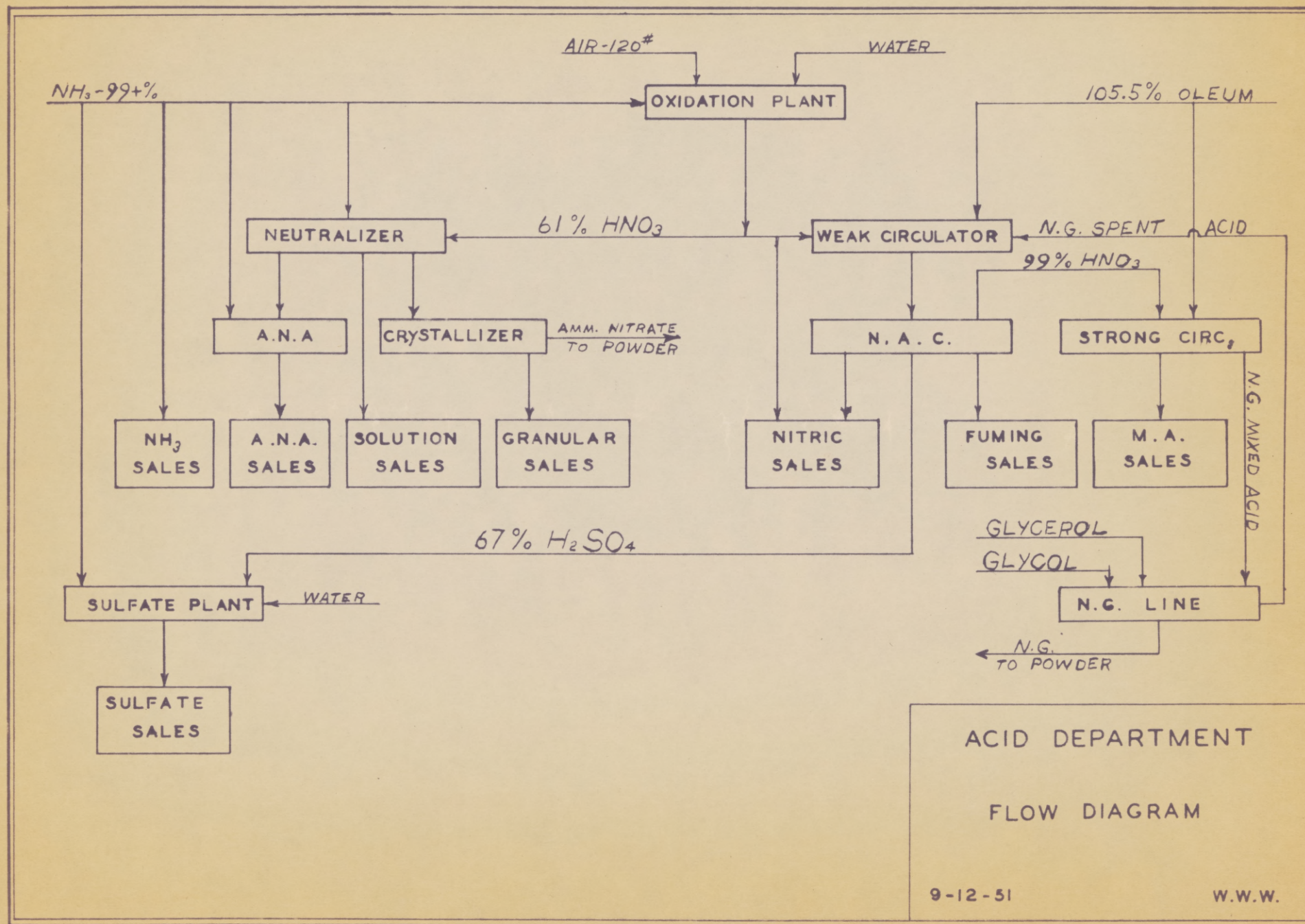
The unconverted hydrogen and nitrogen are recirculated back through the converter by means of two small compressors in order to remove the ever present methane from the recirculated gas, it is necessary to continuously purge from the system a portion of the recirculating gas. This purge gas contains an appreciable amount of ammonia which is scrubbed out by

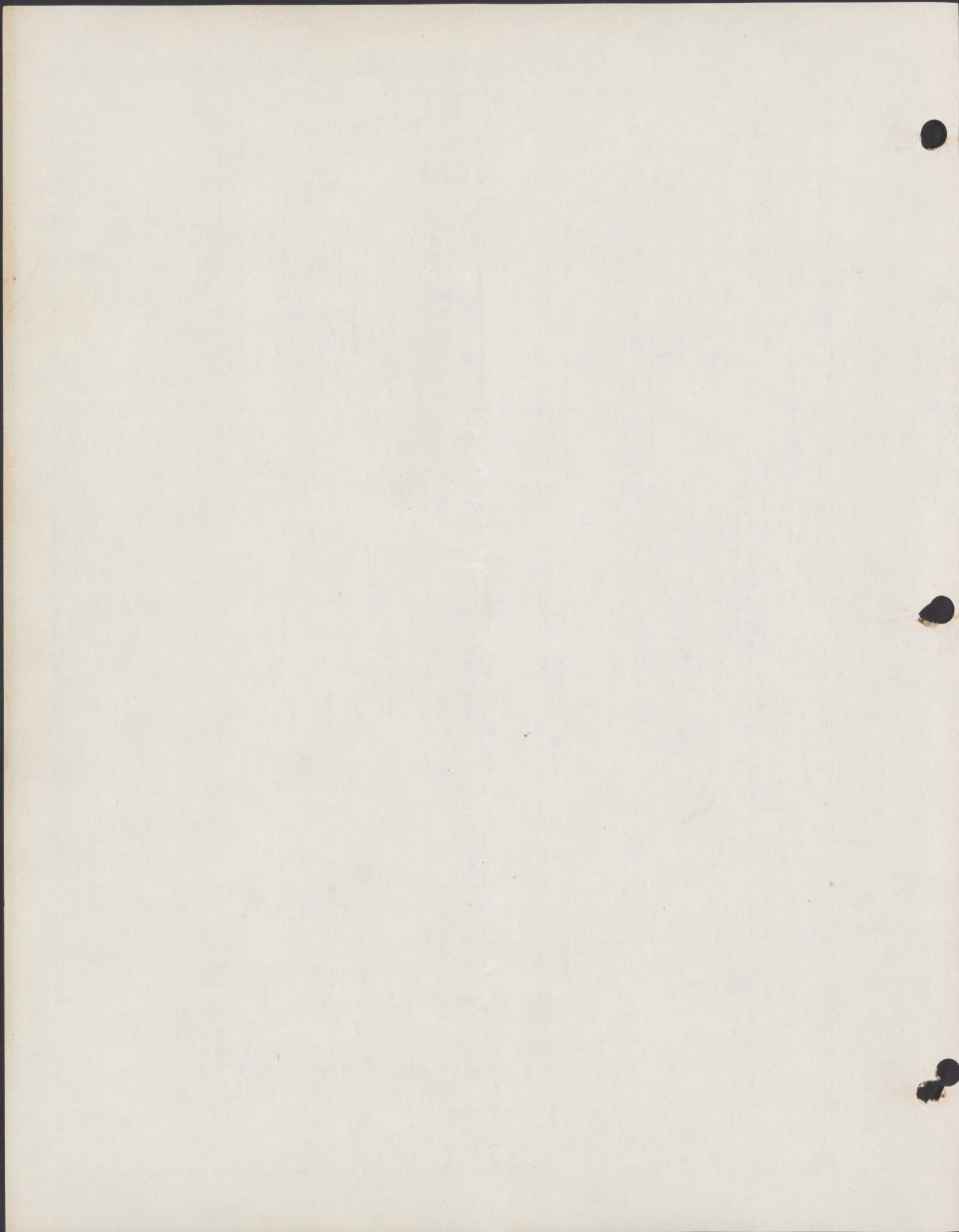
absorption in water to form aqua ammonia or "B" liquor which is in turn finally delivered to the acid area for storage and further use. The ammonia free purge gas flows to the furnace area where its remaining hydrogen and methane content are utilized as burner fuel in the cracking furnaces.

absorption in water. The absorption is in the range of 200-300 mμ and is due to the presence of the carbonyl group. The absorption is not due to the presence of the carbonyl group. The absorption is not due to the presence of the carbonyl group.









ACID DEPARTMENT OPERATIONS

The operation of the Acid Department at the Hercules Plant can best be described by breaking it down into operating areas:

Ammonia Oxidation Plant: This is the fundamental process in the department. Anhydrous ammonia received from the Ammonia Department is vaporized, mixed with air under pressure, and passed through platinum gauzes which catalytically convert it to nitric oxide. The gas is then passed countercurrent to water in absorption towers in the presence of excess air. The nitric oxide is oxidized to nitrogen dioxide and the latter then reacts with water to form nitric acid. The product acid from these absorption towers is about 62% strength. The overall efficiency of this process is approximately 92%. Three such catalytic converters and absorption towers comprise the Hercules ammonia oxidation plant.

Nitric Acid Concentrator: For many purposes nitric acid of higher strength than 62% is desired. To accomplish this concentration a unit known as a Pauling tower is used. The weak nitric acid is mixed with strong sulfuric acid (oleum) and the heated mixture fed to the top of a tall packed tower. Steam is blown into the bottom of the tower and rises countercurrent to the falling acid mixture. The heat drives the water out of the weak nitric acid and the sulfuric acid holds this water so that it cannot recombine with the nitric acid. The strong nitric acid passes off the top of the tower as a vapor and is condensed to form what is known as "distillate." The dilute sulfuric acid is withdrawn from the tower bottom and is either sent off the plant for reconcentration or is used to make ammonium sulfate. The product acid from the concentrator is about 99% strength. It is sold as such for chemical purposes, as an oxidizing agent for fuels, and as a pickling agent for stainless steel. Occasionally a customer wants nitric acid containing excess oxides of nitrogen. This is obtained under special conditions at certain points in the vapor condensing system. Such a product usually contains 6-7% free NO_2 and is known as "red fuming" nitric acid.

Continuous Neutralizer: In this unit weak (58-62%) acid from the oxidation plant is neutralized continuously with anhydrous ammonia to give either weak or strong nitrate of ammonia liquor, depending upon the end use. Part of the output of weak liquor from the neutralizer is sold as a 20% nitrogen solution for use as a liquid fertilizer. Another portion of this weaker solution is sent to the crystallizer for further concentration and eventual graining into solid ammonium nitrate.

When the neutralizer is on a "strong run" the result is a concentrated solution of about 84% strength. This is sold

The operation of the test is described in the following manner:

The test is performed by placing a small amount of the material in a test tube and heating it. The material is then allowed to cool and the test is repeated. The results of the test are as follows:

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as such in tank car lots or is fortified with excess anhydrous ammonia and sold as "ANAM". The latter contains 40% nitrogen and is used as a fertilizer solution. It is popular with the growers because of its high nitrogen content and the fact that it is a liquid with a relatively low vapor pressure.

Crystallizer: In this unit weak ammonium nitrate solution is concentrated by steam heat in open tanks known as "high pans." When the concentration has reached a certain point, depending upon the grain size and density required in the final grained product, the hot solution is run into graining kettles or bowls and stirred continuously until the solution crystallizes and the formation of the grain is complete. Various inert materials are added in small quantities to the grained nitrate in these kettles. These materials act as coating agents and/or fertilizer additives depending upon the final use of the product.

Approximately one fourth of the crystallizer output of solid ammonium nitrate is used in the manufacture of ammonia dynamite at our own plant. Various grades are made for this purpose and the specifications are rather rigid and are subject to close laboratory control.

The balance of the nitrate is sold for chemical fertilizer or for use in dynamite manufacture at other plants.

Mixed Acid Manufacture: Mixtures of oleum and nitric acid are known as mixed acid and are made up for use in the nitration of glycerin-glycol mixtures both at our own plant and for outside customers. The mixing is done in steel tanks and the heat of mixing is removed in shell and tube coolers.

Nitroglycerine Plant: The operation consists of the nitration of a mixture of 80% glycol - 20% glycol with a 50-50 mixture of nitric and sulfuric acids. The nitration is carried out in an agitated, brine-cooled reactor under carefully controlled conditions of temperature.

The nitroglycerine-nitroglycol mixture is separated from the spent acid and washed with water and then neutralized with soda solution to remove the last traces of acid. A small residue of nitrating acid causes accelerated decomposition of the nitroglycerine which in turn liberates heat. This heat may accumulate and eventually cause the nitroglycerine to explode.

From the soda wash the nitroglycerine is sent to storage for eventual use in the manufacture of dynamite.

Ammonium Sulfate Plant: The operation consists of the continuous neutralization of weak sulfuric acid from the nitric acid concentrator with vaporized anhydrous ammonia in a large

stainless steel vessel. This vessel has two main sections. The lower portion is called the crystallizer and it is in this section that the crystals of ammonium sulfate separate from the concentrated mother liquor and grow. The upper section is called the evaporator and here the heat of reaction between the acid and ammonia causes the liquid to boil off water and thus become more concentrated. A large pump circulates liquor between these two sections, bringing the solution from the lower section into the upper evaporator so that it can flash off water. The liquor returns to the lower section through a large central down-comer pipe. The entire unit is operated under a partial vacuum.

A portion of the crystal-containing slurry is continuously withdrawn from the crystallizer section and fed to a continuous centrifuge. Here the crystals are removed from the system, the mother liquor being returned to the crystallizer.

The separated crystals are then dried in a rotary drier and carried by a conveyor system into the warehouse where the sulfate is stored in the bulk in large conical pipes.

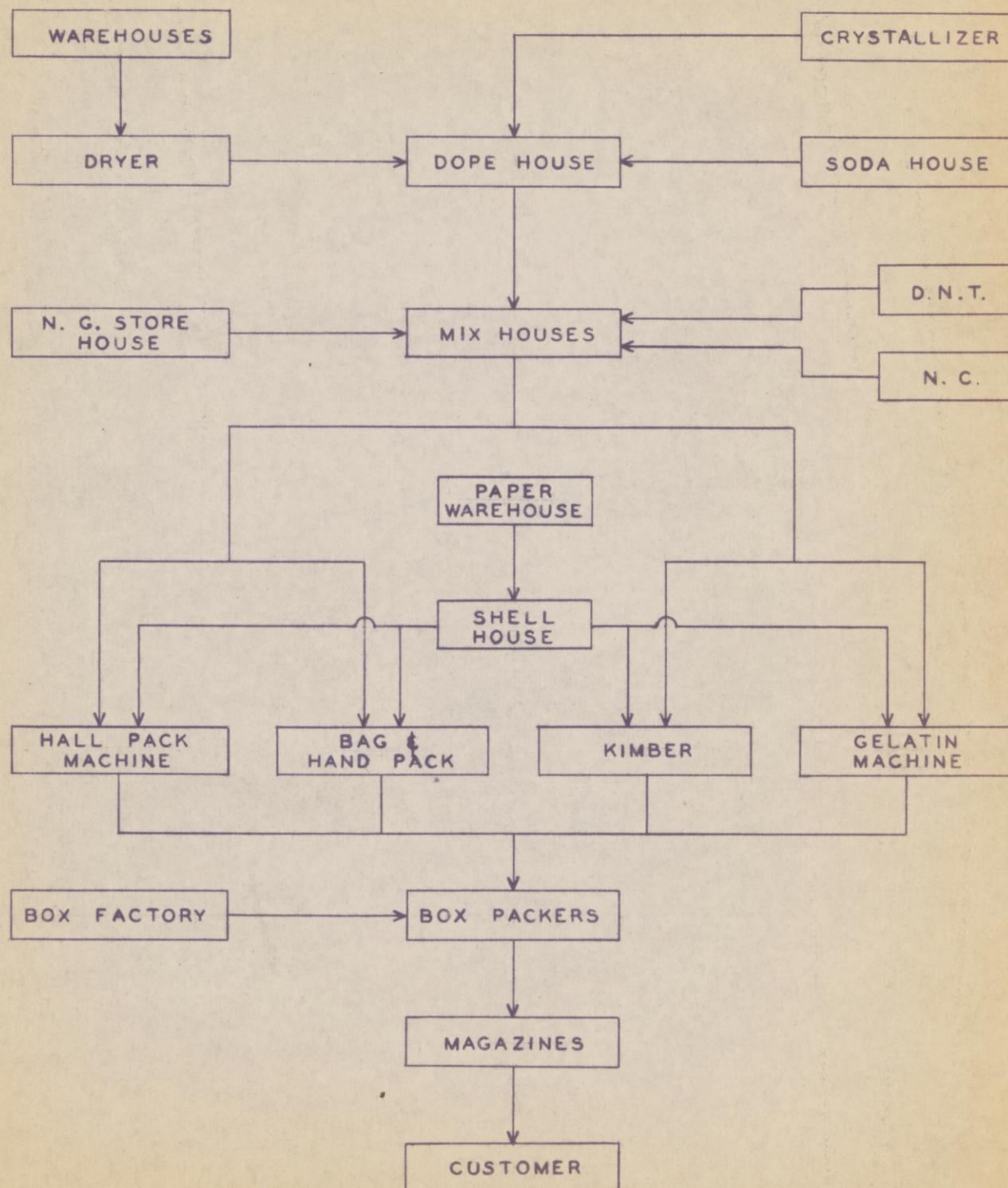
The ammonium sulfate is sold both in the bulk in box cars and in 100-lb. multiwall paper bags.

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DYNAMITE LINE FLOW DIAGRAM



OXFORD

DYNAMITE DEPARTMENT

The dynamite manufacturing process consists principally of mixing, cartridging and packing explosives for shipment to customers. It is divided into six general classifications including: Dope preparation, mixing, cartridging, box packing, shell manufacturing, and box assembly.

When carbonaceous materials first arrive at the plant they are stored in warehouses until needed. These materials are dried in a pan dryer immediately prior to use. Carbonaceous materials presently used at this plant include:

- Sawdust
- Coarse and Fine Apricot Pit
- Coarse and Fine Almond Pit
- Pulp (wood flour)
- Cob Meal (coated with formaldehyde and urea resin)
- Bagasse
- Oat Hulls
- Starch
- Tapioca Flour

Many other carbonaceous materials have been used from time to time. The price, availability, and physical characteristics pretty generally determine which carbonaceous materials are in use at any particular time.

"Soda": Chilean Sodium Nitrate is delivered to the plant in box cars and bulk unloaded into the soda warehouse. Just prior to its use in the powder operations it is dried and separated into coarse grade and fine grade. Its moisture content is preferably below 0.10% and the particular grade used imparts certain qualities, characteristics, and densities to the powder.

"Ammonia": (Nitrate of Ammonia) is manufactured in the crystallizer in four different grades for powder line use. These grades are 1D, 1G, #2, and #3 and are used in a similar manner to the soda. In addition "Ammonia" is used to replace some of the nitroglycerine in the formula as it has about .7 the explosive value of nitroglycerine.

In the dope house the carbonaceous materials, soda and "Ammonia" are mixed according to a predetermined formula and taken to the mix house in hods. The mixers used at this plant are known as Talley Mixers. They derive their name

EXHIBIT 100-100000

The following information was obtained from the records of the Bureau of the Census, Department of Commerce, and the Bureau of Economic Warfare, Department of War, in connection with the investigation of the activities of the Japanese Government in the United States.

It was determined that the Japanese Government had been active in the United States since 1937, and that its activities had been directed towards the establishment of a Japanese Empire in the Pacific.

On 10/10/37, the Japanese Government announced that it had decided to establish a Japanese Empire in the Pacific. This announcement was made in a statement issued by the Japanese Government, in which it was stated that the Japanese Government had decided to establish a Japanese Empire in the Pacific, and that it had decided to do so in order to protect its interests in the Pacific.

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The Japanese Government's announcement of its decision to establish a Japanese Empire in the Pacific was a significant event in the history of the Pacific. It was a declaration of war against the United States, and it was a declaration of war against the world.

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from their inventor Mr. Talley who was a former Hercules employee. The Talley mixer consists of a bronze bowl fitted with bronze stirrers. In the Talley mixer the liquid and solid ingredients are thoroughly incorporated.

The liquid constituents used in Hercules explosives include the following:

DNT: (Dinitrotoluene) which may also be in the solid state.

Nitrocotton: Which forms a colloid necessary in the gelatin type of powder and is used in small quantities in other types of powder to increase water resistance.

N.G.: (Nitroglycerine) which is the basic explosive ingredient in our commercial explosives.

In the Talley Bowl these materials are thoroughly incorporated and the mixed powder is taken to the cartridge houses in hods.

The Pack Houses consist of four units and each is equipped to handle the sizes listed:

<u>Hall Pack Machine</u> :	7/8 - 2" Diameter	4" - 8" long.
<u>Bag and Hand Pack</u> :	12-1/2# & 25# bags & 3" - 8" Dia.	8" - 32" long
<u>Kimber</u> :	1-1/8 - 2" diameter	4" - 12" long
<u>Gelatin Machine</u> :	7/8 - 8" diameter	3" - 20" long.

The paper shells (both regular and tamptite) for small size stick powder and spiralock cartridges for larger shells are made in the shell house. A unit container called the 23-G is a spirally wound shell which is waxed on one end before filling and are usually filled by vibrating.

All dynamites (including gelamites, Hercomites, Herculites) are packed in the Hall Pack, Bag and Hand pack, or the Kimber.

The gelatin powders and vibrogels are packed on the gelatin machine. Certain dynamites can be packed on the gelatin machine and they include Gelamite B, C, and D grades.

The boxes in which all the above cartridge powder, except 23-G, is packed, are assembled in the box factory. The fiber cartons are made of heavy cardboard and the wooden boxes, made of pine shooks, are Style 1 and comply with ICC specification 15A33 or 15A65. The boxes are lined with heavy waxed paper, filled with the proper amount of powder, and the lid is nailed on (the folding top is carefully glued down on the fiber boxes).

from their inventory. The following are the items listed:

The items are classified as follows:

1. (Miscellaneous) which are in the solid state.

2. (Miscellaneous) which are in the solid state.

3. (Miscellaneous) which are in the solid state.

4. (Miscellaneous) which are in the solid state.

5. (Miscellaneous) which are in the solid state.

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9. (Miscellaneous) which are in the solid state.

10. (Miscellaneous) which are in the solid state.

11. (Miscellaneous) which are in the solid state.

12. (Miscellaneous) which are in the solid state.

Each box of powder is marked with date or identifying code that shows the batch number and machine on which it is packed.

The packed boxes are sent to the Magazines where they are stored awaiting shipment to the customer.

Dynamite Grades: The grades of powder manufactured by Hercules include the following:

Nitroglycerine Dynamites: These powders contain the actual amount of N.G. designated as per cent strength. These powders are more sensitive than other grades and are used in propogated ditching, etc.

Extra Dynamites: These correspond to N.G. dynamites but part of the N.G. has been replaced with ammonium nitrate. These are good for all around work and are less sensitive than N.G. dynamites and are slightly lower in price.

Hercomites 2 to 7: These are the most economical explosives as ammonium nitrate is the principal explosive and sufficient N.G. is added to give the desired sensitiveness.

Hercomites 2A to 7A: These powders have the same characteristics as the Hercomite series but have a lower rate of detonation.

Gelatin: These dynamites are made by introducing nitro-cotton into the N.G. before the addition of other ingredients. When the dope is added the resulting powder is a dense plastic, gelatinous explosive that is highly water resistant.

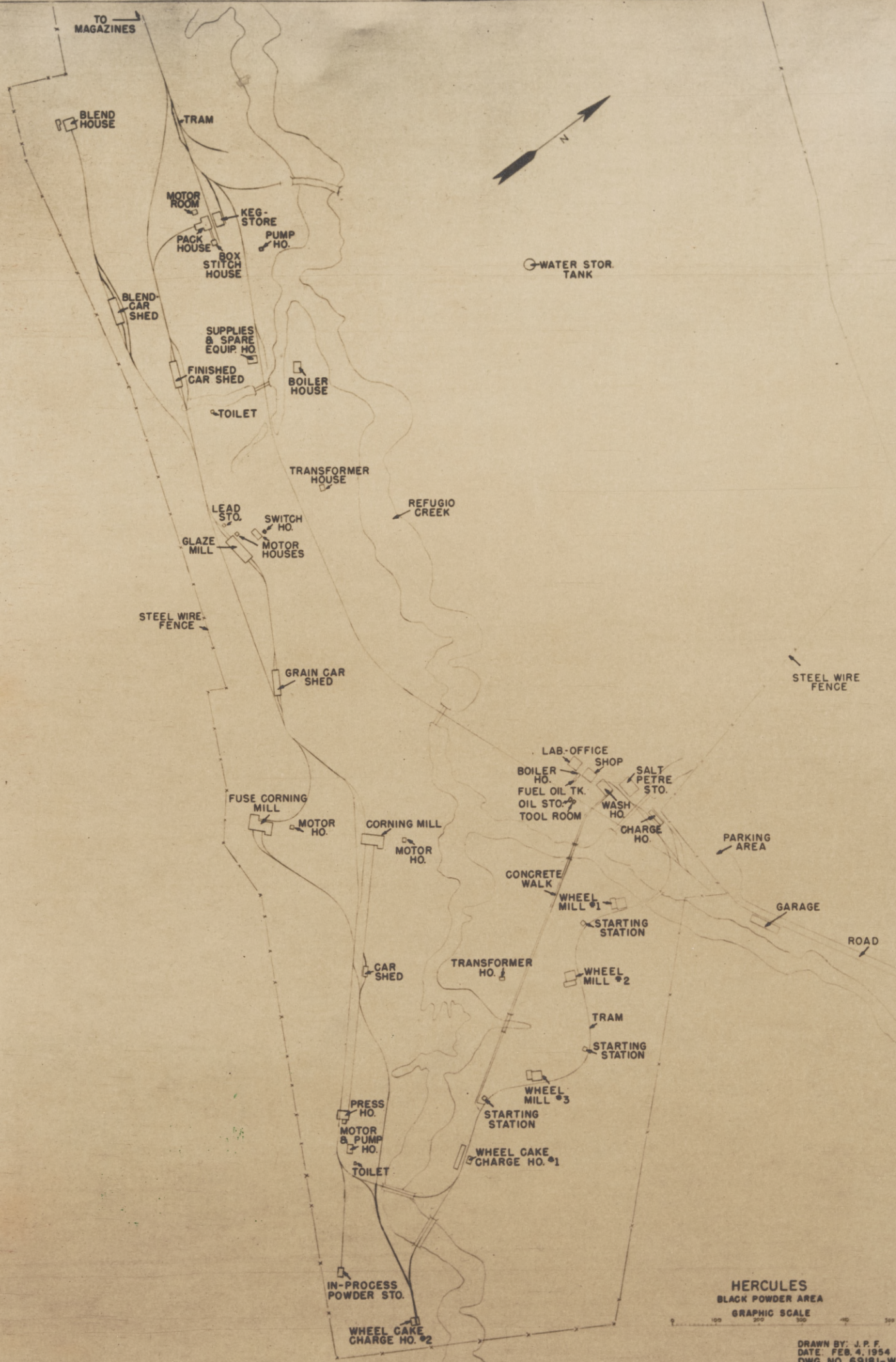
Gelatin Extra: These powders are similar to the gelatins but some of the N.G. has been replaced by ammonium nitrate. It is highly water resistant but is cheaper than gelatin.

Gelamite 1 & 2: These are economical semi-gelatins and are more water resistant than extra dynamite but less than extra gelatin.

Seismograph Gelatins: These are special gelatins for the seismograph trade. They are packed in heavy shells (generally spiralok cartridges) and have good water resistance.

Bag Powders: These are Herculites and Hercomites bag packed in 12-1/2# bags.

Hercules Permissibles: These are powders tested and approved by the U.S. Bureau of Mines for use in coal mines. Since there are no coal mines in this area, we seldom make permissible powders at this plant

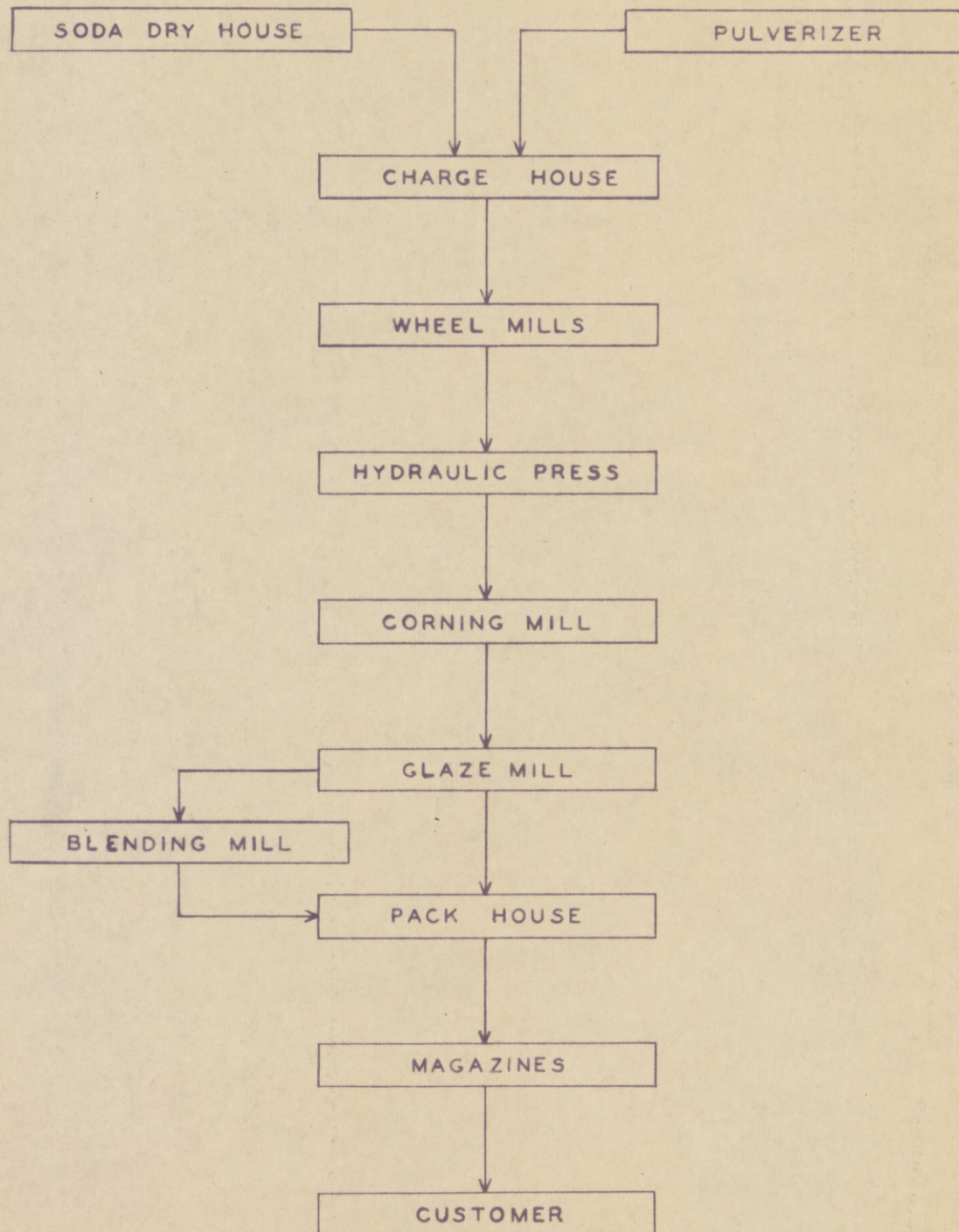


DRAWN BY: J. P. F.
DATE: FEB. 4, 1954
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BLACK POWDER PLANT

FLOW DIAGRAM



OSYD

BLACK POWDER OPERATION

Black Powder is generally considered to have been invented by the Chinese several centuries ago, and our present process has existed essentially unchanged since about 1900.

The ingredients are Nitrate of Soda (Nitrate of Potash (salt-petre) is used in Black Rifle and Black Fuse Powder), sulfur and charcoal.

The Soda is ground, dried and weighed into correct charges at the Soda Dry House.

In the Pulverizer, which is a ball mill, charcoal and sulfur are ground and weighed into correct charges. This fine powder is known as composition dust. The charges of soda and composition dust are stored in the Charge House until needed in the next operation.

The charges of soda and composition dust are put in the wheel mill (We have 3 such units on this plant) where they are incorporated. The product from the wheel mill, which is an explosive substance, is known as wheel cake.

The wheel cake is then placed in the Hydraulic Press where it is pressed into cakes, approximately 1 inch thick by 24 inches square under a pressure of 5,000 to 6,000 pounds per square inch. This is done so that the specific gravity of the powder coming from the wheel mills will be increased to facilitate graining. The cakes are then broken up into chips about the size of a thumb and smaller.

The chips then go to the corning mill where they are further reduced in sized to give the required size of commercial product. Dust resulting from this process is returned to the hydraulic press for blending with fresh wheel cake and repressing.

The commercial size grains are then sent to the glaze mills which are wooden cylinders approximately 4 feet in diameter and 10 feet long. About 3,800 pounds of powder is placed in each glaze cylinder and the temperature raised to approximately 190-200 degrees F while the glazing with graphite and drying of the powder takes place.

In the pack house, the dust and headings are removed and the grains are separated into commercial sizes and packed. The dust and headings are returned to the wheel mills for remilling. The packed powder is then sent to the magazines for safe storage until shipments are made. When Black Fuse powder is being made, a Blending Mill (similar to the glaze mill) is used to blend powders of different burning speeds to give a powder of the required burning speed. This operation takes place between the glaze mill and the pack house.

SUPERVISION

SUPERVISION



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